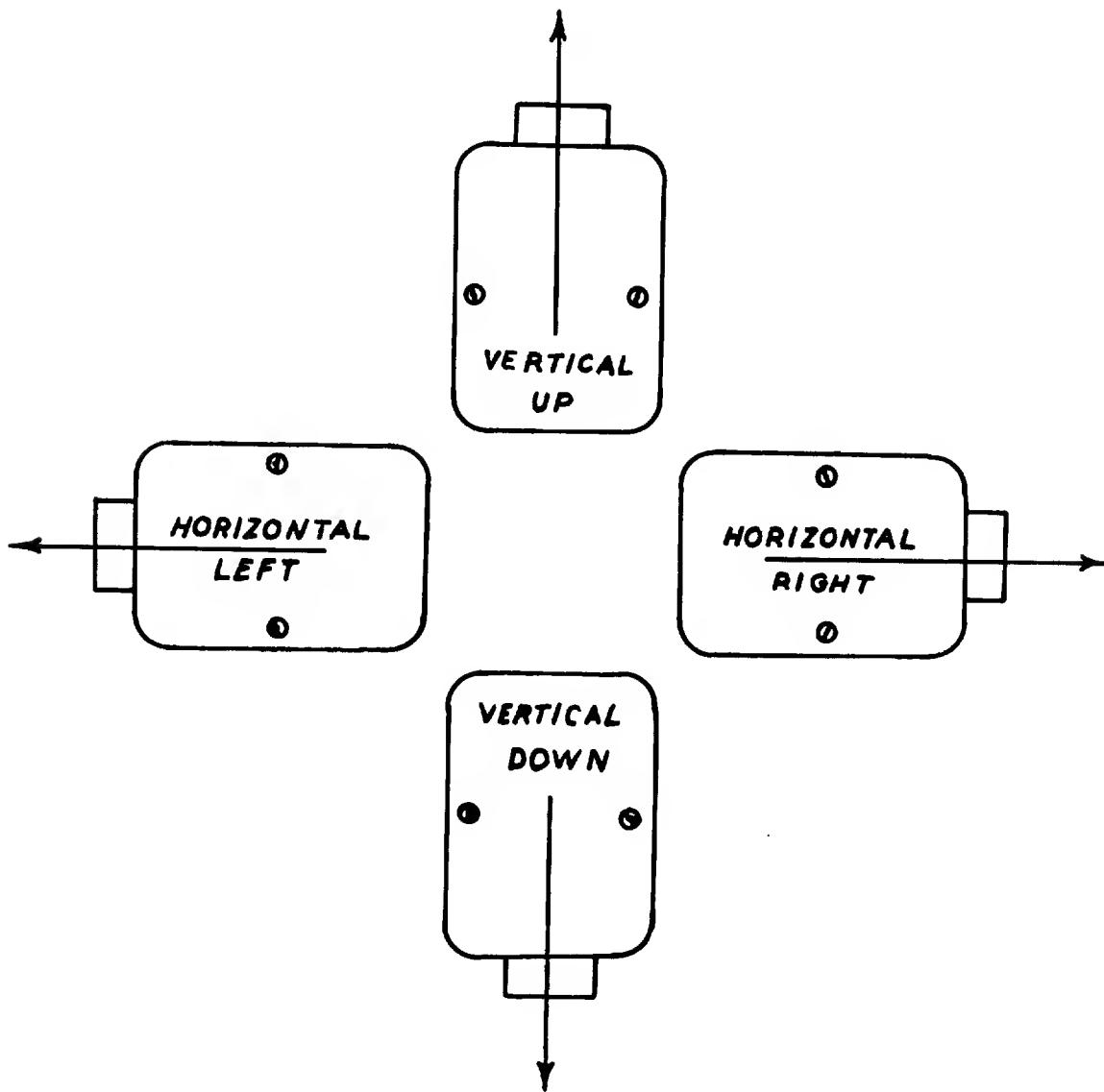


HAND OF LOCK

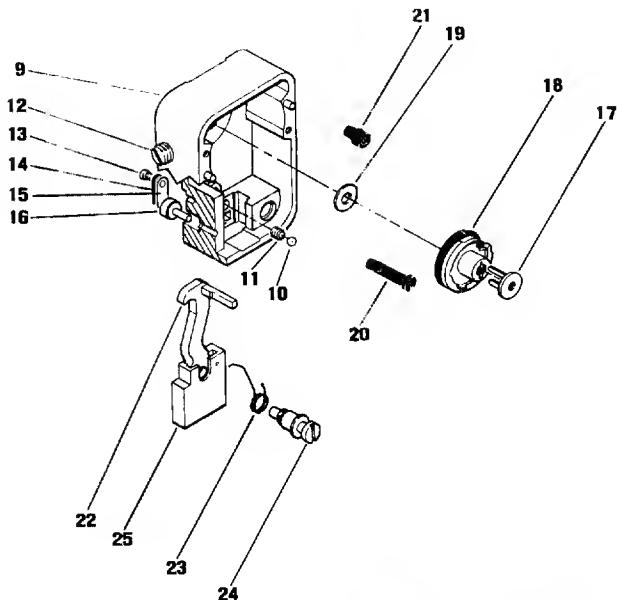
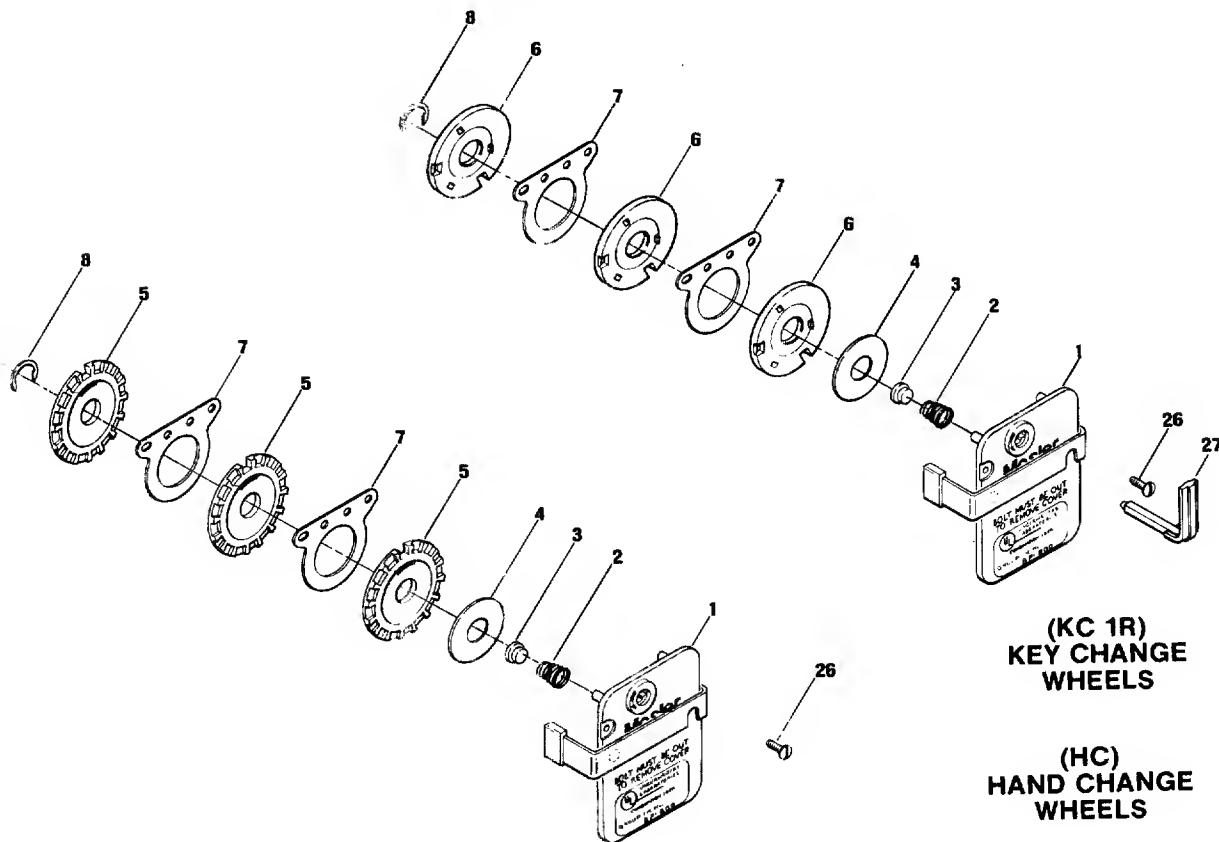


◆ DIRECTIONS FOR DETERMINING HAND OF LOCK ◆

1. FACE REAR OF LOCK
2. DIRECTION OF BOLT THROW IS THE HAND OF THE LOCK.

MOSLER MANIPULATION RESISTANT COMBINATION LOCK

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6



MR CASE PARTS
GROUP 1 & 1R

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6

COMPONENT IDENTIFICATION

1. COVER
2. FRICTION SPRING
3. FRICTION PLUG
4. FRICTION WASHER
5. HAND CHANGE WHEEL ASSEMBLIES – AVAILABLE IN SETS OF 3 OR 4
6. KEY CHANGE WHEEL ASSEMBLIES – AVAILABLE IN SETS OF 3 OR 4
7. WHEEL SPACERS
8. RETAINING RING
9. CASE
10. DETENT BALL
11. DETENT SPRING
12. SHUTTER DETENT ASSEMBLY
13. RELOCK SCREW
14. RELOCK STOP
15. RELOCK SPRING
16. RELOCK
17. SPINDLE KEY
18. SHUTTER DRIVER ASSEMBLY
19. WEAR WASHER
20. LONG MOUNTING SCREW
21. SHORT MOUNTING SCREW
22. LEVER ASSEMBLY
23. LEVER SPRING
24. LEVER STUD
25. BOLT
26. COVER SCREW
27. CHANGE KEY

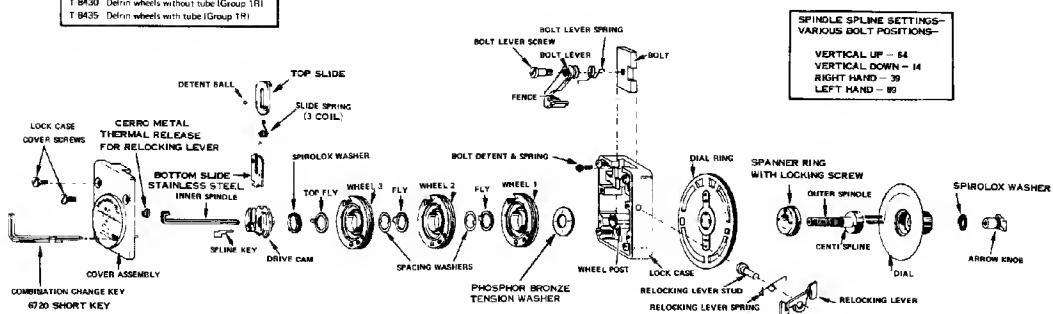
S&G COMBINATION LOCK
latest model T-8400 group 1 & 1R
with Centi Spline Feature

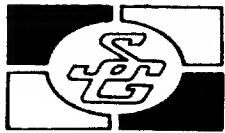
T 8410 Brass wheels without tube (Group 1)
T 8415 Brass wheels with tube (Group 1I)
T 8430 Delrin wheels without tube (Group 1RI)
T 8435 Delrin wheels with tube (Group 1RI)

* T-8400 LOCKS MAY BE OBTAINED
WITH STANDARD DIAL AND RING
AS SHOWN HERE OR SPY PROOF
DIAL AND RING.
NORMALLY, REPLACEMENT OF
DIAL AND RING SHOULD BE
CONSISTENT WITH ORIGINAL
LOCK.

SPINDLE SPLINE SETTINGS—
VARIOUS BOLT POSITIONS—

VERTICAL UP = 54
VERTICAL DOWN = 14
RIGHT HAND = 39
LEFT HAND = 89





SARGENT & GREENLEAF, INC.
ROCHESTER, NEW YORK 14621

FINE LOCKS, HARDWARE AND SECURITY MECHANISMS

SINCE 1857

OPERATING INSTRUCTIONS

FOR

T8410-MP, T8415-MP (MANIPULATION PROOF) COMBINATION LOCK

T8430XMP, T8435XMP, (X-RAY PROOF MANIPULATION PROOF COMBINATION LOCKS

Before operating the lock or changing the combination, READ THESE INSTRUCTIONS THOROUGHLY.



FIG. 1

At the top of the dial ring an opening index is provided for normal dialing and opening. At the left of the opening index, a changing index, **I**, is provided for use only when setting a new combination. The arrow knob in the center of the dial controls the Manipulation Proof feature.

This is a precision lock with maximum security against manipulation; therefore, extreme care must be used to align the combination numbers with indices.

Turn the dial slowly and steadily. If, after turning the correct number of revolutions any number is turned beyond the opening index mark, **I**, the entire series of combination numbers must be re-dialed. DO NOT TURN BACK TO REGAIN PROPER ALIGNMENT OF THE NUMBERS each time a selected number is aligned with opening index, **I**, a revolution is counted.

CAUTION: Do not turn the Arrow Knob when dial is set at any position other than "0".

TO UNLOCK

All locks in this series are set on 50-25-50 after final inspection at our factory. Turn dial to "0" and make sure the arrow knob is pointing to "0" as indicated in Fig. 1

1. Turn dial to the LEFT, stopping when "50" is aligned with the opening index, **I**, the FOURTH time.
2. Turn dial to the RIGHT, stopping when "25" is aligned with the opening index, **I**, the THIRD time.
3. Turn dial to the LEFT, stopping when "50" is aligned with the opening index, **I**, the SECOND time.
4. Turn dial to the RIGHT, stopping when "0" is aligned with the opening index, **I**, the FIRST time.
5. HOLD THE DIAL WITH "0" ALIGNED WITH THE OPENING INDEX, **I**, and turn the small arrow knob quarter turn to the RIGHT (as far as it will go)
6. Continue turning the dial to the RIGHT until it stops. The bolt is now fully retracted, and the safe or cabinet may be opened. The above procedure is used with any three-number combination substituting the selected numbers for the example numbers 50-25-50

CAUTION: When used in conjunction with PLUNGER LOCK, the combination lock must be operated first.

7. To lock, turn the dial to the LEFT, stopping when "O" is aligned with the opening index. Hold the dial in alignment and turn the arrow knob one quarter turn to the LEFT (as far as it will go), then continue to turn the dial to the LEFT for at least FIVE complete revolutions.

CHANGING TO A NEW COMBINATION

Make up a new combination, selecting 3 sets of numbers of your own choosing.

Do not use numbers between 0 and 20 for your last number. (e.g. 46-82-13).

For maximum security, do not use numbers ending in 0 or 5 and do not use numbers in a rising or falling sequence. e.g. 35-50-75 is not as good a combination as 54-38-72.

"CAUTION: Use key 6720 on this Series lock, other keys will not function properly."



FIG. 2
Wing on key
passes into slot
in lock plate.



FIG. 3

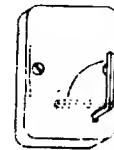


FIG. 4

8. Using the changing index, I, dial the existing combination as explained in paragraphs 1 - 2 - 3 on other side.
9. Hold the dial with the last number at the changing index, I, and insert the changing key in the key hole in the back of the lock (see Fig. 2). Insert the key until the wing is entirely inside the lock and comes to a positive stop.
10. Turn key one quarter turn to the LEFT (see Fig. 3). With the changing key in this position, turn the dial to the LEFT, stopping when the first number of the newly selected combination aligns with the changing index, I, the FOURTH time.
11. Turn dial to the RIGHT, , stopping when the second number is aligned with changing index, I, the THIRD time.
12. Turn the dial to the LEFT, , stopping when the third number is aligned with the changing index, I, the SECOND time. Holding the dial in this position, turn the changing key back to the RIGHT and remove it (see FIG. 4).

BEFORE CLOSING THE CABINET, try the new combination several times, using the opening index.

WARNING: NEVER INSERT THE CHANGING KEY IN THE LOCK WHEN THE COVER IS REMOVED. ALWAYS BE CERTAIN THAT THE WING OF THE CHANGING KEY IS ENTIRELY WITHIN THE LOCK (AS ILLUSTRATED) BEFORE TURNING KEY.

IF AN ERROR HAS BEEN MADE IN SETTING A NEW COMBINATION, we suggest that an accredited locksmith be called. If this is not possible, do the following:

- A. Remove the two screws in the back of the lock which hold the cover (changing key may be used as a screw driver). Remove cover.
- B. Using a straightened paper clip or similar instrument, insert it in the square keyways or in the square slots in the wheels. Rotate each wheel until all the slots are in perfect alignment and the square keyways are directly over a small hole in the bottom of the case and in line with the change key hole in the cover.
- C. Replace the cover and insert the changing key as shown in Figure 2. Secure the cover with screws.
- D. Follow directions for setting the new combination as indicated in paragraphs 10 through 12 above. If, after following the directions outlined above, the locking mechanism fails to operate, we suggest that an accredited locksmith be called.

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6

SARGENT and GREENLEAF LOCK MODELS



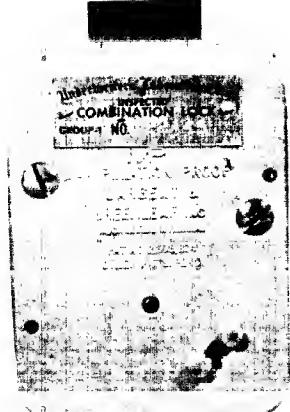
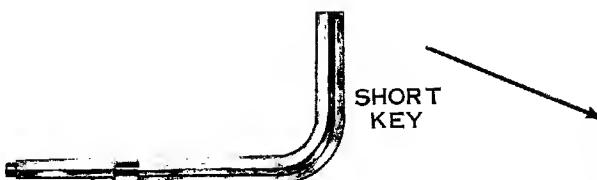
M Series
OBSOLETE
USE SHORT KEY



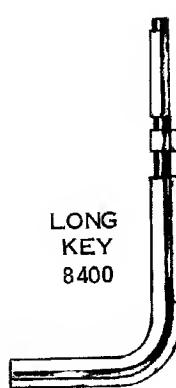
R Series
OBSOLETE
USE SHORT KEY



T-8400
APPROVED - USE SHORT KEY

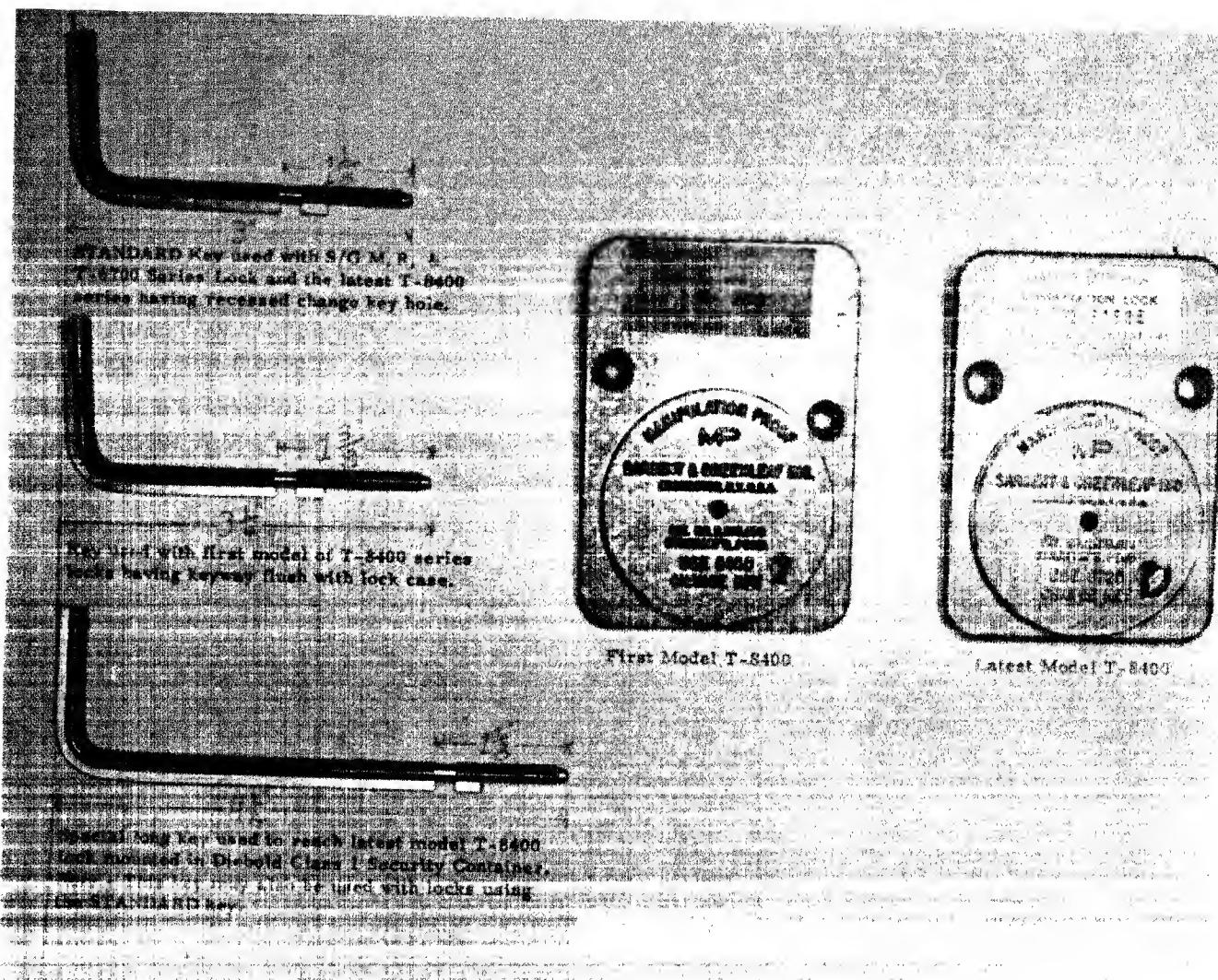


T-6700
OBSOLETE
USE SHORT KEY



T-8400
APPROVED
USE LONG KEY

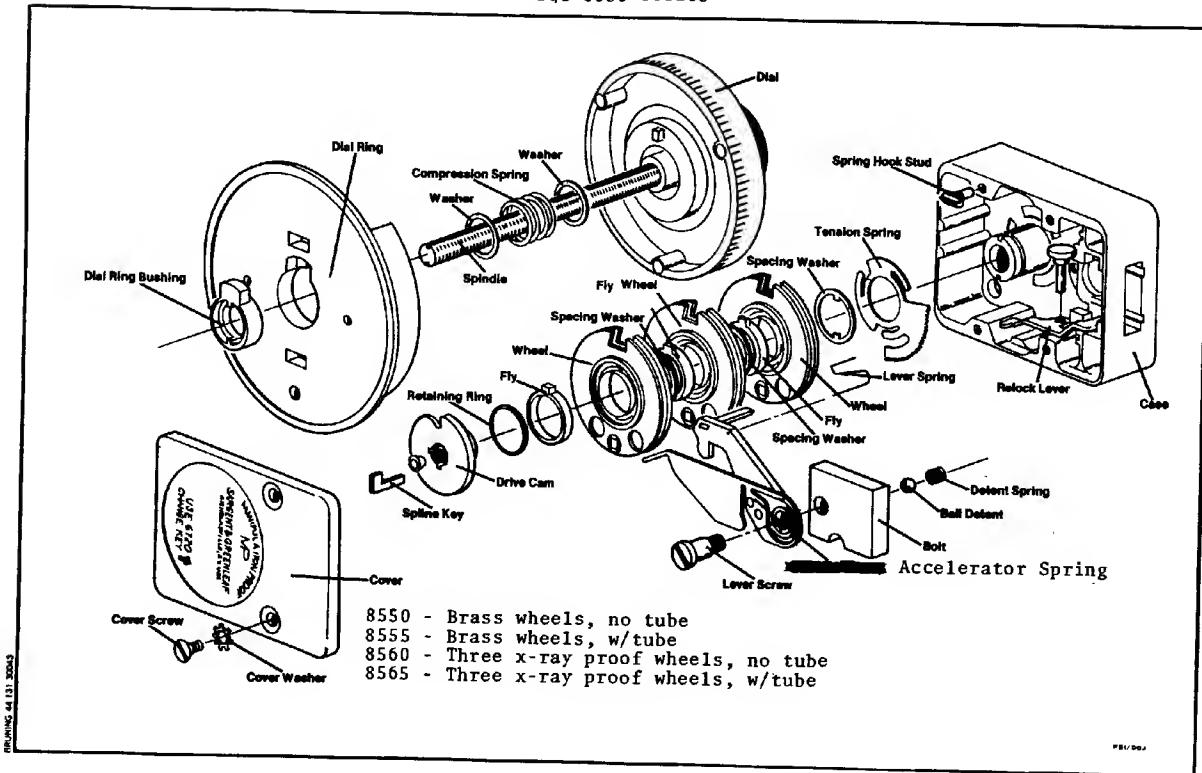
Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6



Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6

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S&G 8550 Series



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SARGENT & GREENLEAF, INC.
Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6
FINE LOCKS, HARDWARE AND SECURITY MECHANISMS
SINCE 1857
TELEPHONE, (716) 467-3200 CABLE, "LOCKS, ROCHESTER"

MODEL SM50 X 78415 MP COMBINATION LOCK
CUT TO 1 $\frac{1}{4}$ " DOOR THICKNESS—FOR DOORS OF EITHER HAND*

*(This lock is shipped set up for a RH (or RHR) door. When installing it may be set up for either hand).

OUTSIDE VIEW

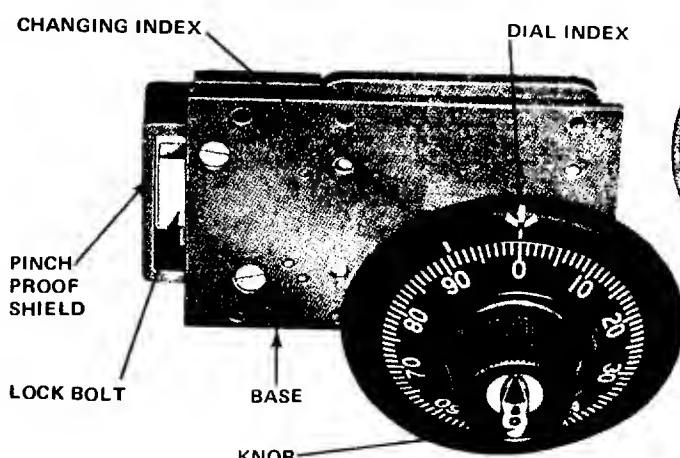


Fig. 1

INSIDE VIEW

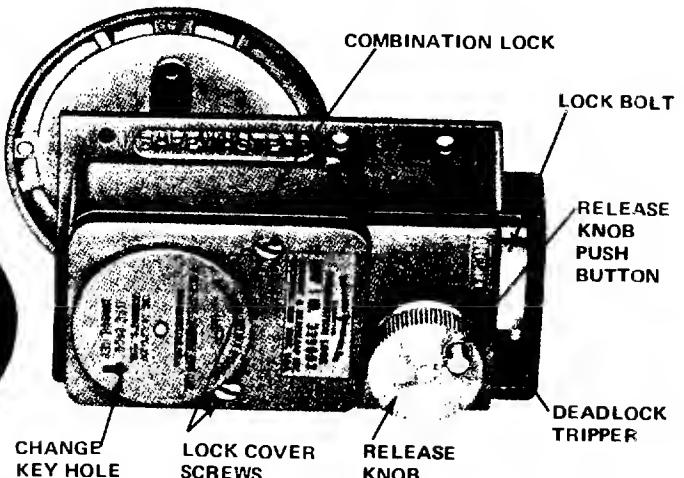


Fig. 2

NOMENCLATURE

TO PREPARE THE DOOR

1. Using the template enclosed, install the strike.
2. Use the center of the strike as a reference for locating the 6 lock attaching screws and 13/16 tube hole.
3. Drill the 6 attaching screw holes (#25 drill .149"). No, 28 or 29 drill MAY be used.

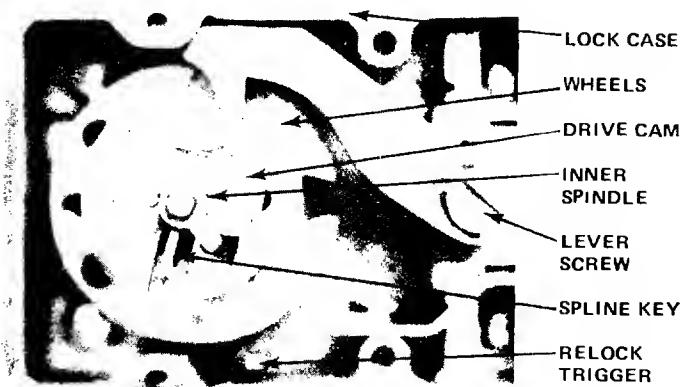


Fig. 3

TO DISASSEMBLE THE DIAL
AND RING FROM TUBE

4. Turn dial and knob to "0". Rotate dial at least four revolutions to left (counter clockwise) stopping at any number.
5. Remove 2 lock cover screws and cover.
6. Remove the inner spindle, pulling straight out (Fig. 3).
7. Remove the spline key. Grip with pliers and pull straight out without twisting or bending. (Fig. 4).
8. Hold the cam from turning while rotating the dial to the left (counter clockwise) until it is threaded out of the cam and may be removed.
9. Remove the hex-nut(s) which secure the dial ring (Fig. 5).
10. Place the lock on the inside face of door with tube projecting through. Secure with 6 tapping screws provided.
11. Place the dial ring on the projecting end of tube and secure with the thin hex-nut. (Fig. 5).

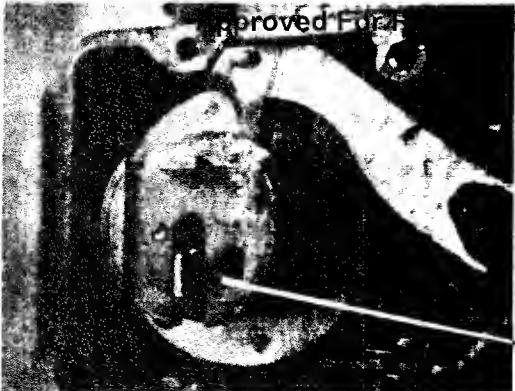
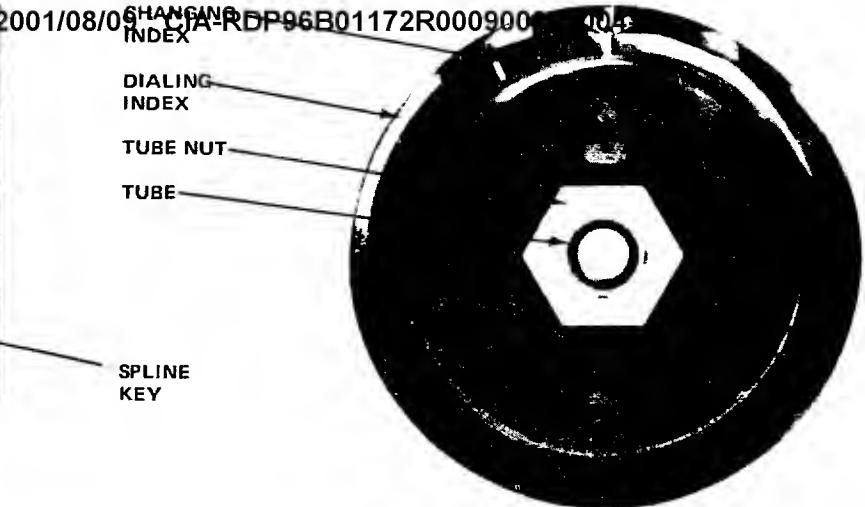


Fig. 4

OBSERVE THE DIAL AND SPINDLE. THE SPINDLE HAS A SPLINE CUT LENGTHWISE AT 39 FOR RH DOORS AND ALSO AT 89 FOR LH DOORS.

12. Insert the dial spindle in the tube and thread the spindle into the cam (while holding the cam) until finger snug. Back off until the 39 or 89 spline, depending on hand of door, is aligned with the mating cut in cam (Fig. 6). Insert a NEW spline key provided, tapping gently until completely seated.
13. Turn dial and knob to "0". Insert inner spindle with the drive hook engaged in the triangular hole in cam (Fig. 7).
14. Dial the factory shipping combination several times to ensure correct installation. Replace cover and cover screws.
15. The lock, now being installed, is ready to have the private combination set by the end user.



DIAL RING
Fig. 5

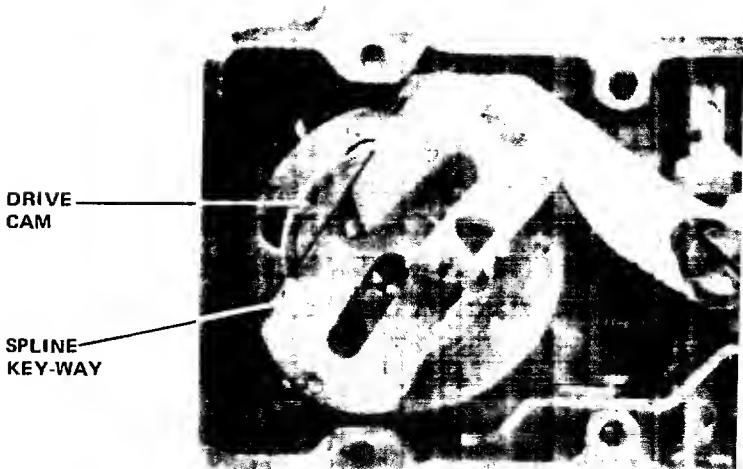
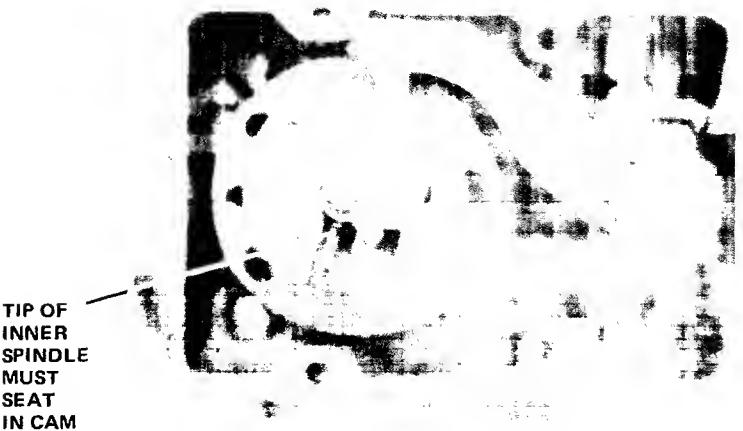
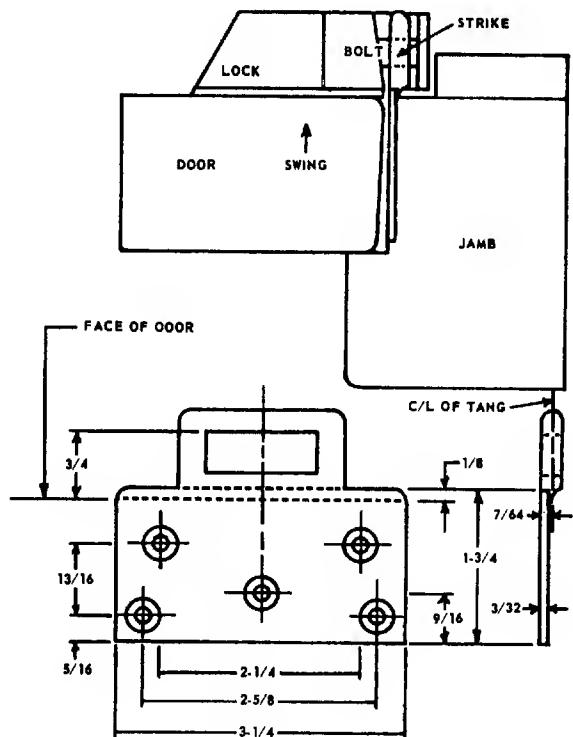


Fig. 6

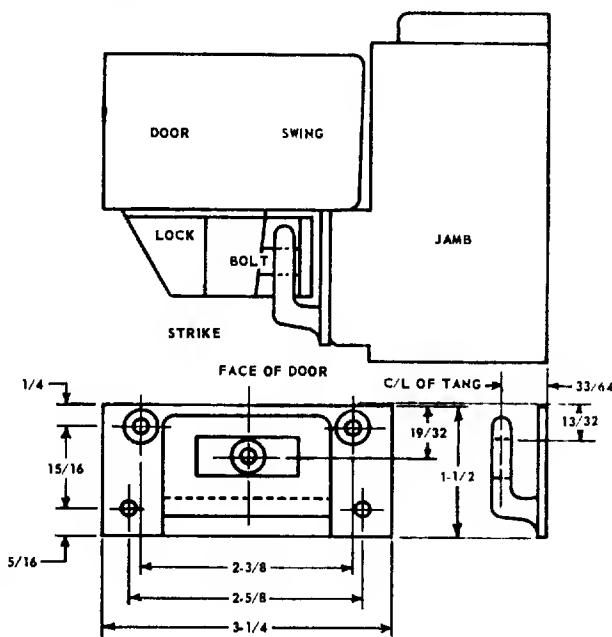


STRIKE NO. 1 Approved For Release 2001/08/09 : CIA-RDP96B0

CAT-RID#98B01172R000900040004-6



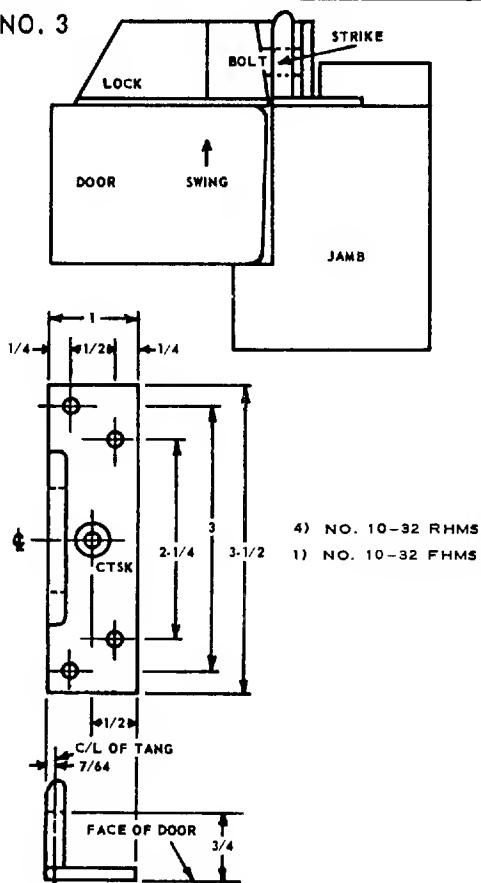
B) NO. 10-82 FHMS



3) NO. 10-32 FHMS

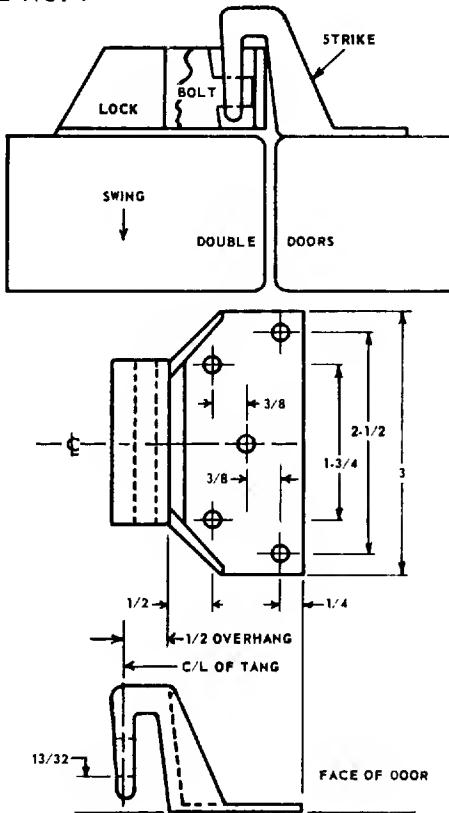
2) NO. 10-32 RHMS

STRIKE NO. 3

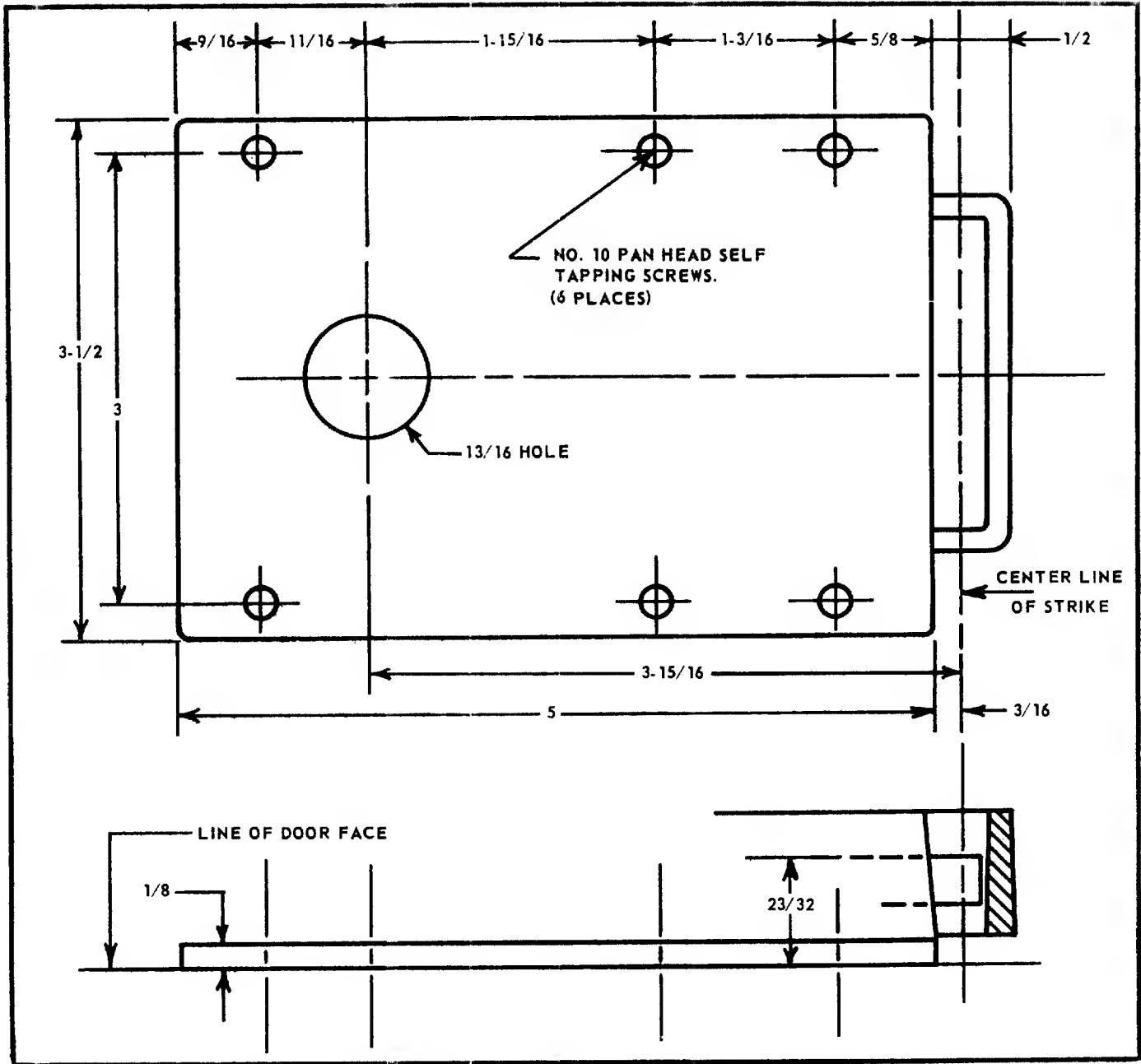


4) NO. 10-32 RHMS
1) NO. 10-32 FHMS

STRIKE NO. 9



INSTALLATION DETAIL TEMPLATE





SARGENT & GREENLEAF, INC.

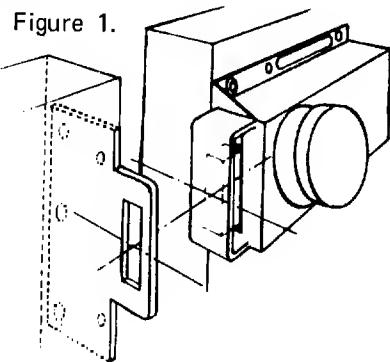
INSTALLATION INSTRUCTIONS — 8497 ELECTRO-MECHANICAL LOCK

STRIKE INSTALLATION:

1. Using the strike as a template, locate and mark the position for the strike.
2. Drill and attach with the screws provided with the strike.

LOCK INSTALLATION (For Inswingng Doors):

1. Position the lock template on the inside of the door so that the center of the strike after mounting will correspond exactly with the strike center line marked on the lock template. See Figure 1.
2. Drill from the outside of the door according to the instructions furnished with the cylinder using the template as a guide. Note: Template indicates the cylinder key opening, not the center of the cylinder.
3. Attach the cylinder, following the instructions with the cylinder. Use the recessed plate behind the cylinder so that the plate will be flush with the inside surface of the door.
4. Position the lock, fitting the key of the cylinder into the opening in the back of the lock case. **CAUTION:** Be sure to keep the cylinder key level when inserting it into the lock case. If the key is inserted on an angle, binding will occur.
5. Attach the lock with the six attaching screws included with the lock. Using the three extra screws, supports, and cable clamps, run the cable to the input control you are using and attach according to the instructions.



Note:

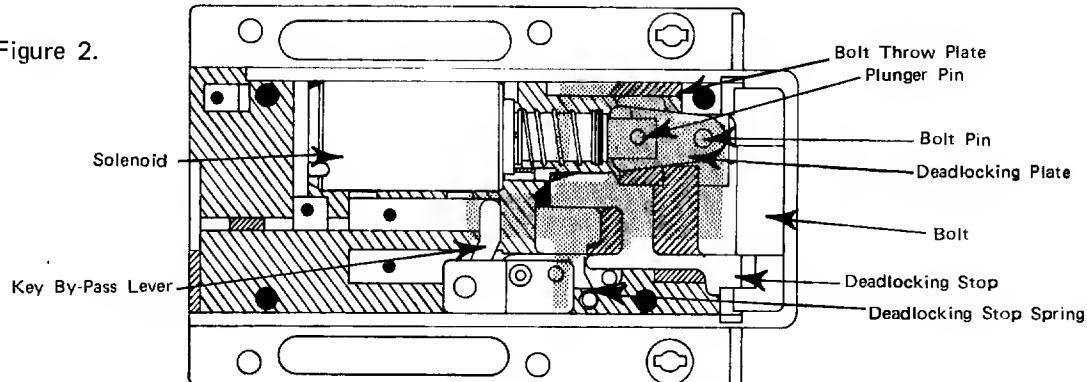
If the 8497 is to be used with an input other than the S&G Code/Tronic or Code/Tronic II, write to the factory to determine whether or not an external driver is necessary.

FOR OUTSWINGING DOORS

For outswinging doors, it is necessary to change the bolt in the lock. An extra bolt for this purpose is included with every lock. To change the bolt, follow these instructions:

- A. Disassemble the lock, per the following instructions, carefully noting the position of each item as you remove it. (See Figure 2).

Figure 2.



1. Remove the three cover attaching screws from the back of the lock.
2. Remove the cover.
3. Remove the bolt throw plate noting how the tab fits under the Key By-Pass Lever.
4. Remove the deadlocking stop.
5. Push the solenoid assembly back slightly and lift out the solenoid and deadlocking plate as a unit, being careful not to lose the plunger pin. (See Figure 3).
6. Remove the bolt.

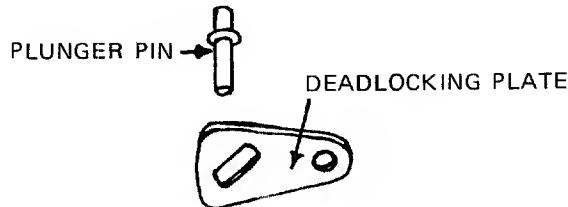


Figure 3.

B. The new bolt should be lubricated lightly before reassembling the lock. (Sargent & Greenleaf recommends using only G-322L grease, a silicone base grease of medium consistency made by General Electric.)

1. Place the new bolt in the exact position as the bolt you removed.
2. Replace the solenoid and deadlocking plate unit so that the plunger pin fits into its slot and is flush with the plate, and the hole in the deadlocking plate fits over the bolt pin. Check to be sure that the plate is not reversed; the straight side goes next to the wall of the case.
3. Replace the deadlocking stop. Carefully position the spring behind the stop.
4. Replace the bolt throw plate so that the higher ridge is to the inside of the post and the tab is under the Key By-pass Lever.
5. Make sure the solenoid wire is to the left side of the mounting post so it will not be pinched. Replace the cover, but do not force it. If it does not fit easily into place, re-check your assembly.
6. Following the instructions given in Steps 1-5 for Inswingng Doors.

8497 SPECIFICATIONS

Bare Specifications: Coil rating 12 VDC intermittent duty.

DC Coil resistance 1.2 OHMS, factory installed 10 ft. cable.

Recommended pull-in currents and duration:

5 amps for ½ second to 15 amps for 1½ seconds.

Recommended holding currents and duration:

600 Millamps or .6 Amps for 60 seconds to 2 Amps for 15 seconds.

NOTE: Long Distance - Use heavy guage 14 wire or heavier, or not to exceed .2 OHMS cable resistance.



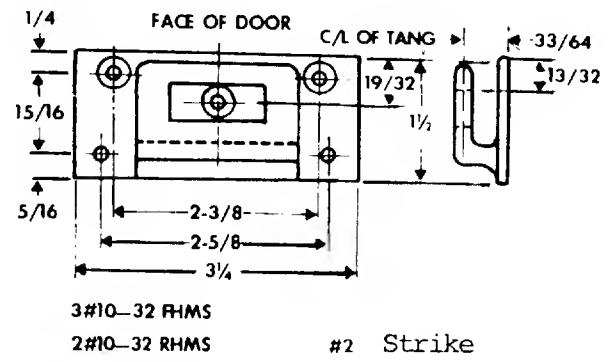
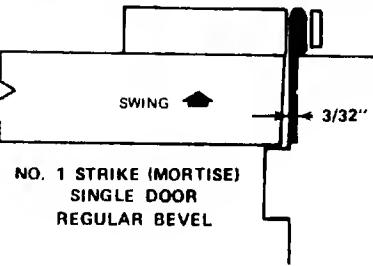
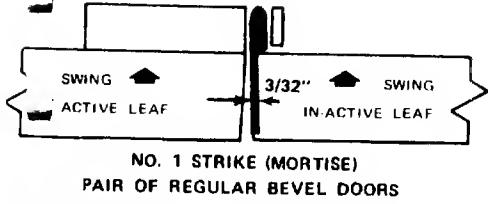
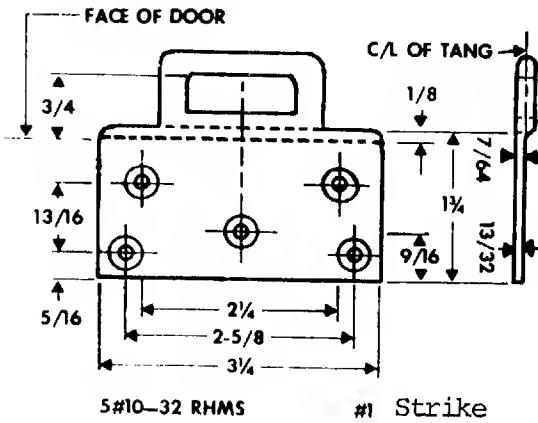
SARGENT & GREENLEAF, INC.

1 SECURITY DRIVE • NICHOLASVILLE, KENTUCKY 40356

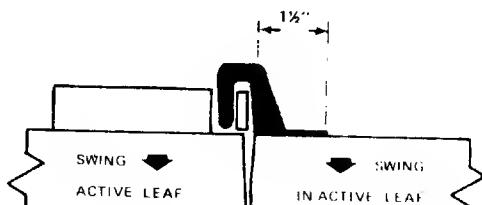
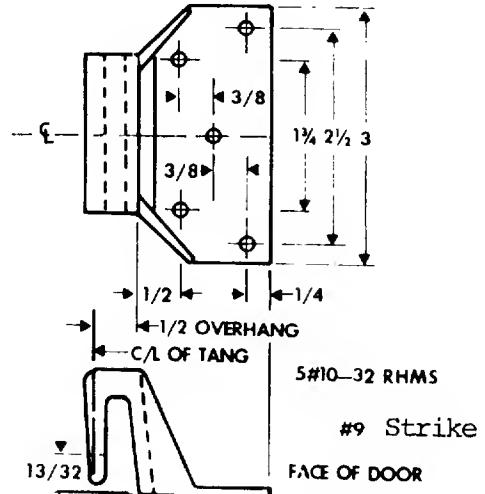
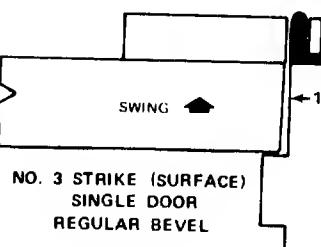
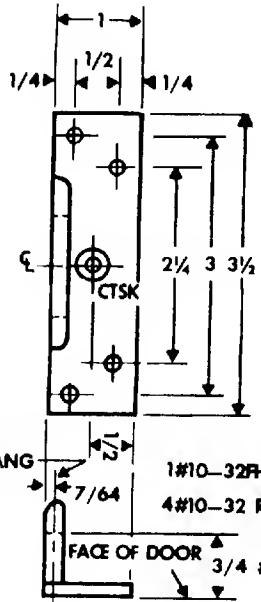
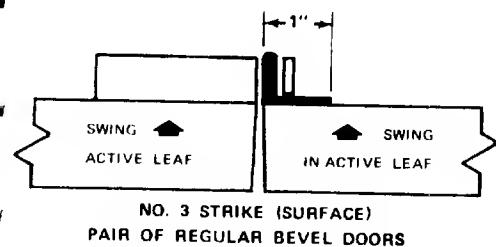
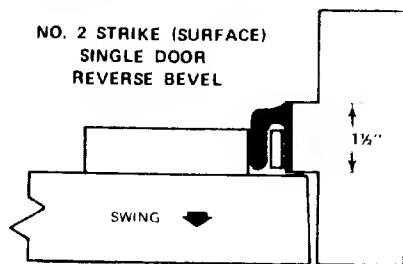
TELEPHONE: (606) 885-9411

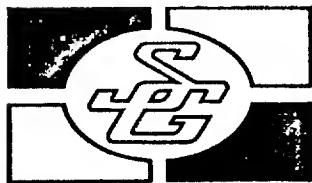
TELEX: 21-8459

8497 ELECTRO-MECHANICAL LOCKS



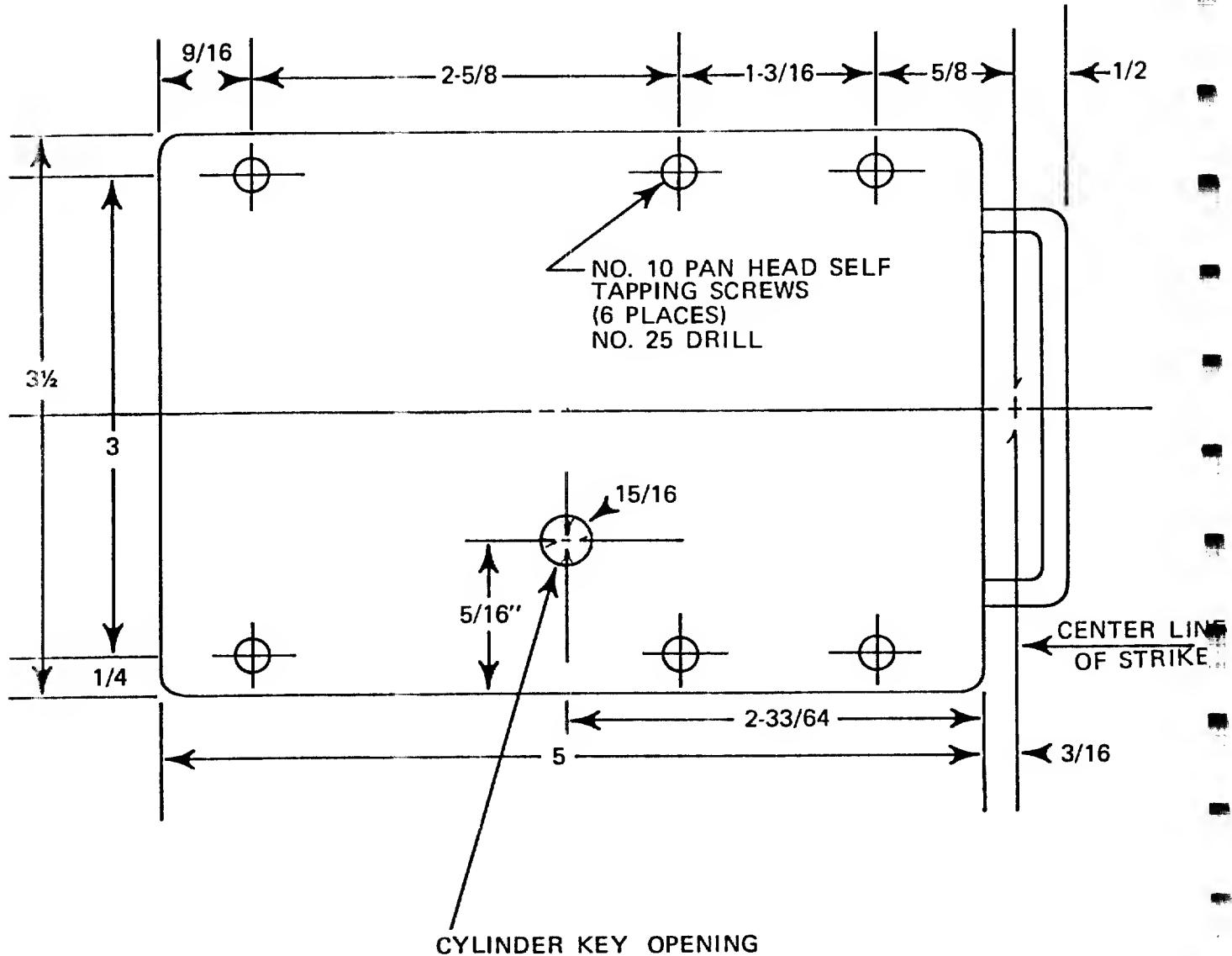
NO. 2 STRIKE (SURFACE)
SINGLE DOOR
REVERSE BEVEL



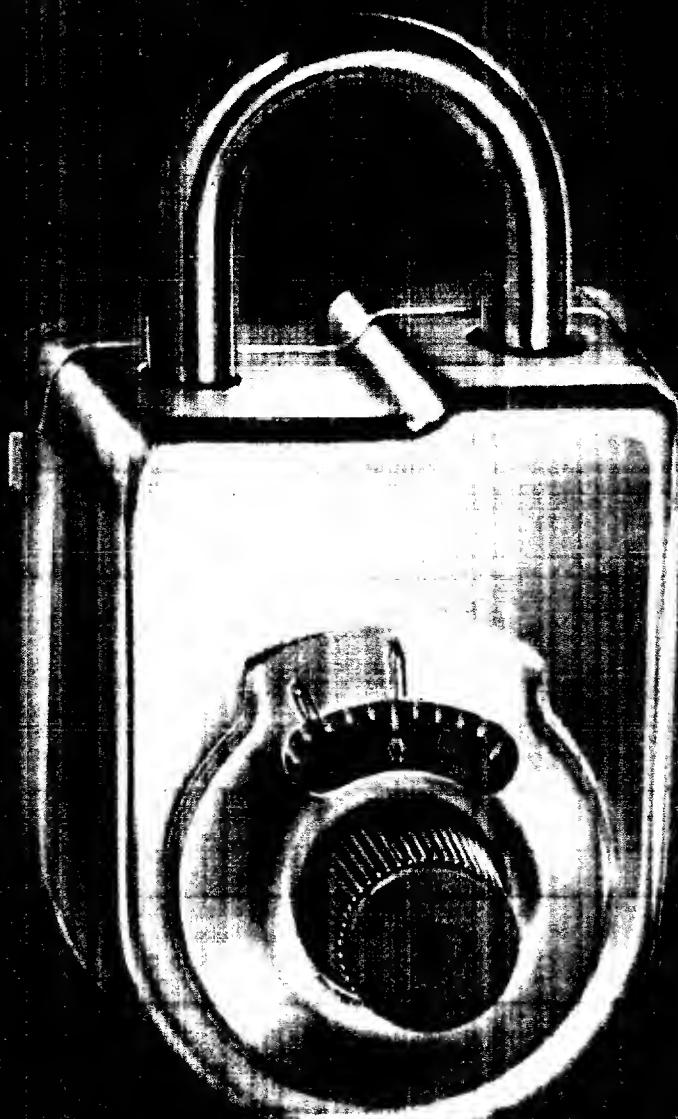


SARGENT & GREENLEAF, INC.
1 SECURITY DRIVE • NICHOLASVILLE, KENTUCKY 40356
TELEPHONE: (606) 885-9411 TELEX: 21-8459

TEMPLATE
8497 ELECTRO-MECHANICAL LOCK



8077



. . . a very smart padlock

If you have classified information to protect, you want to know if your security has been breached. Sargent & Greenleaf's 8077 combination padlock is designed to outsmart any attempts, by any of the most modern methods of surreptitious entry, to gain undetected access to your secrets.

Manipulation of the 8077 is a practical impossibility. There are no contact points: the slider fence never touches the wheels. And Radiographic methods are ineffective because the wheels are made of aluminum. Probing for the combination is

countered by the use of a double casing, a body of die cast Zamac and an outer shell of specially hardened and coated steel. The two positively interlock so that removal of the back cover to expose the change key hole is difficult and detectable. The exterior finish of the 8077 makes it virtually impossible to mask any attempt to determine the combination by drilling the case of the lock. If an intruder gets past the 8077, he will have to damage it. And the damage will be apparent.

**8077
Key Changing
Combination
Padlock**

Model 8077 is Sargent & Greenleaf's second generation open shackle, combination padlock. It is key changeable with 25,000 possible combinations. The changing procedure incorporates a series of checks which, if observed carefully, will avoid accidental lockouts. As of April 1974, the 8077 is the designated replacement for the earlier Model 8088 in accordance with the minimum requirements of Federal Specification FF-P-10-F. The Federal Stock Number is 5340-285-6523.

Material:

Outer Case - Zamac No. 3
Outer Shell - Hardened Steel
Back Cover - Hardened Steel
Shackle - Hardened Steel

Finish:

Outer Shell and Back Cover - Simulated Chrome

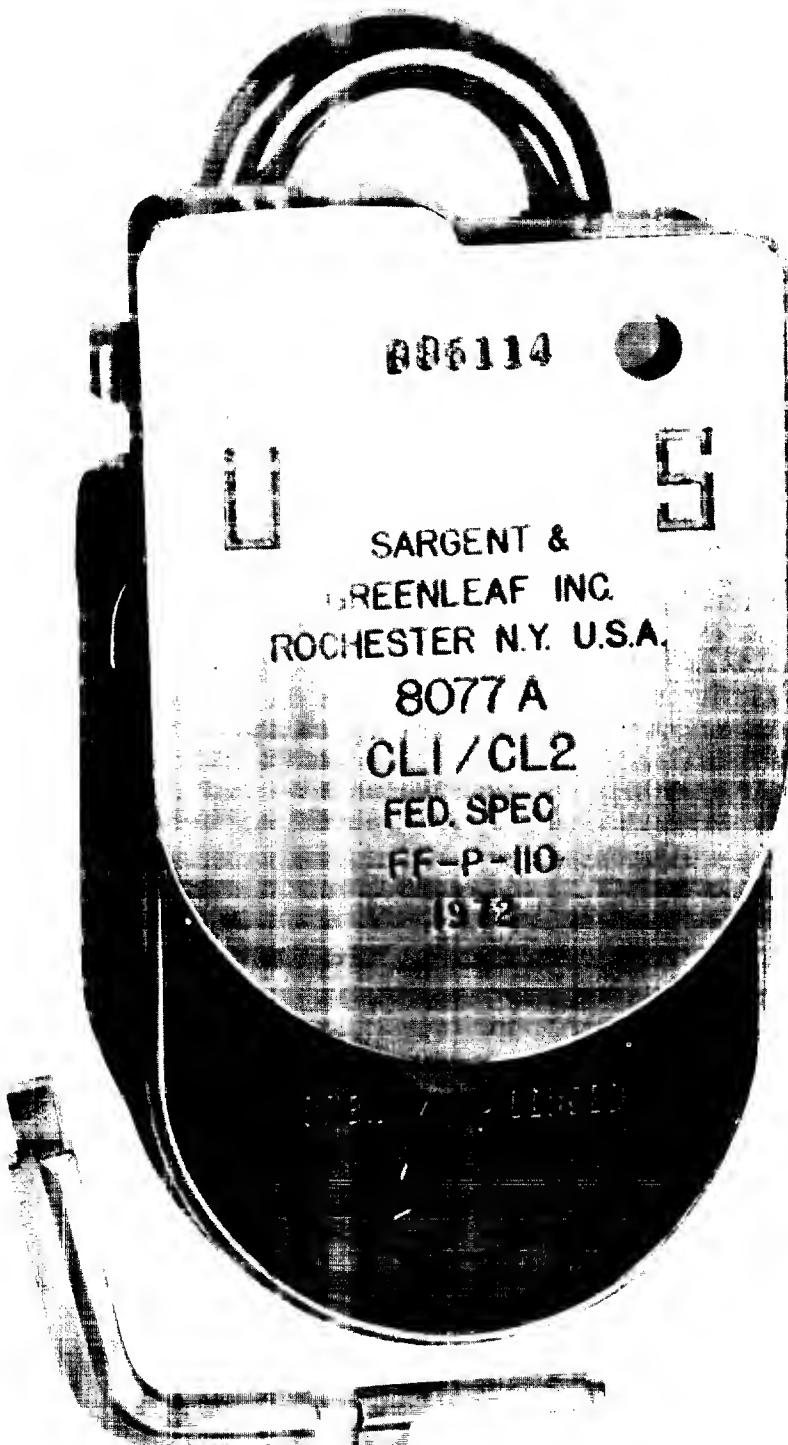
Combinations: 125,000 Possible

Case Dimensions: 2 3/8" x 3" x 1 7/8"

Shackle Opening: 7/8"

Weight: 1.5 Lbs.

Change Key: No. 8088



8077

Exposed Shackle Padlock



SARGENT & GREENLEAF, INC.
ROCHESTER, NEW YORK 14621

1. All 8077 padlocks are operated on the 4 - 3 - 2 - 1 principle. That is, to open the lock, the dial is turned counterclockwise four times to the first number, three times clockwise to the second number, two times counterclockwise to the third number, and once clockwise to the last number, which is always zero.

2. The one exception to this opening procedure applies to new locks. All new 8077 locks are shipped from the factory with the single number of 25 set on it. A new combination should be set on the lock before it is put into service, and periodically thereafter.

3. Before attempting to operate this lock, study the illustrations of the lock to familiarize yourself with the names of various important features of the lock. Before attempting to change the combination, you should be thoroughly familiar with the opening procedures.

4. When opening the lock, or changing the combination, care should be taken to align the numbers of the combination and the index very exactly. Failure to do this will result in a lock that is difficult to operate.

OPENING PROCEDURE

1. Determine the present combination on the lock.

A. If the lock is new and is just being put into service, the number 25 will be set on it.

B. Turn the dial counterclockwise four revolutions. On the fourth revolution, align the number 25 on the dial with the opening index I. See Fig. A.

C. Turn the dial clockwise one-half revolution and align 0 with the opening index I.

D. Pull shackle out to open the lock.

2. If the lock has any other combination other than the factory one on it, turn the dial counterclockwise, four revolutions. On the fourth revolution align the first number of the combination on the opening index I. See Fig. A.

3. Turn the dial clockwise, pass the second number of the combination two times and on the third revolution align that number on the opening index I.

4. Turn the dial counterclockwise, pass the third number of the combination one time and on the second revolution, align that number on the opening index I.

5. Turn the dial clockwise until zero is aligned with the opening index I.

6. Pull the shackle upward to open the lock.

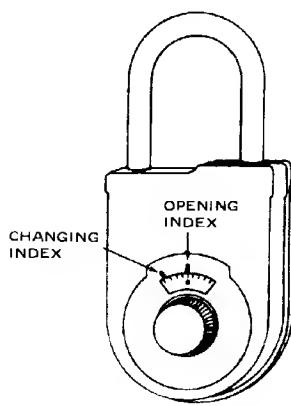


Fig. A

WARRANTY

This lock is guaranteed to be free of defects in workmanship or material for a period of one year.

We will repair or replace, at our option, any lock proving defective — if returned to our factory. We will not be responsible for any repairs made without our written authority.

CHANGING PROCEDURE

- With the present combination, open the lock as described in the "opening" procedure.
- On the back of the lock, using the screwdriver end of the change key (Fig. B), turn the cover locking screw (Fig. C) clockwise until it comes to a complete stop.
- Remove rear cover plate by sliding it upward toward the shackle.
- Back out counterclockwise the cover locking screw until it comes to a stop.
- Relock the shackle.
- Cover the opening index mark with a small piece of masking tape to prevent misdialing the number on the opening index.
- Dial the present combination on the changing index. All numbers of the combination, including the last number zero, are used in the combination changing procedure.

A. In the event that the lock is new and just being put into service, the single number of 25 is set on the combination. Turn the dial counterclockwise four turns and on the fourth revolution, stop at 25 under the changing index. Turn the dial

clockwise \curvearrowleft one-half revolution stopping when zero is aligned with the changing index. Do not pull out the shackle.

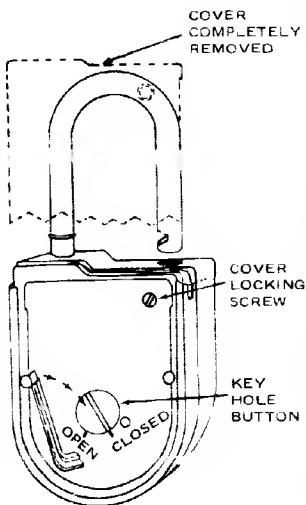


Fig. C

- In the event that any other combination is set on the lock, using the same procedure outlined for opening the lock, dial the present combination on the changing index. Do not pull out the shackle.

9. Using the elbow of the changing key (Fig. B), turn the key hole button on the back of the lock (Fig. C) clockwise \curvearrowleft to the open position. If the button will not turn, repeat the procedures in steps 7 or 8.

10. Insert the change key tip first. The change key is properly seated when the tab on the key is fully inside the lock back. Turn the key clockwise \curvearrowleft one-quarter turn.

11. Turn the dial counterclockwise \curvearrowleft five revolutions, this erases the old combination.

12. Dial the new combination including zero on the changing index. Use the procedures as outlined in the "opening" procedures.

13. Once the new combination is set, and zero is aligned with the changing index, turn the change key counterclockwise \curvearrowleft one-fourth turn and remove. Do not reset key hole button.

NOTE: For assurance that you have correctly set the combination, you should once again completely redial the new combination as directed in Step 12. Reinsert the change key fully into the lock, but do not turn. If the key will fully insert, you have set the combination correctly. Failure to recheck the combination by this procedure may result in a lock that cannot be used.

14. Dial the new combination including zero on the changing index. Using the change key elbow, turn the key hole button to the closed position.

15. If the key hole button will not return to the closed position, the combination has been incorrectly dialed. Redial.

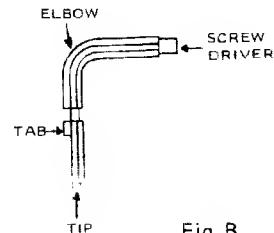


Fig. B

16. Remove the masking tape from the opening index. Dial the new combination using the opening index and follow the steps outlined in the "opening" procedures. Pull out the shackle.

17. Turn the cover locking screw clockwise \curvearrowright until it comes to a complete stop.

18. Slide the rear cover into place.

19. Turn cover locking screw out counterclockwise \curvearrowleft until it comes to a complete stop. Relock the lock.

20. After any combination number change, it is advisable to operate the lock several times before it is put into use.

INSTALLATION INSTRUCTIONS AND TEMPLATE DETAILS
MODEL SM181 SAFEMASTERS DEADBOLT

NOMENCLATURE

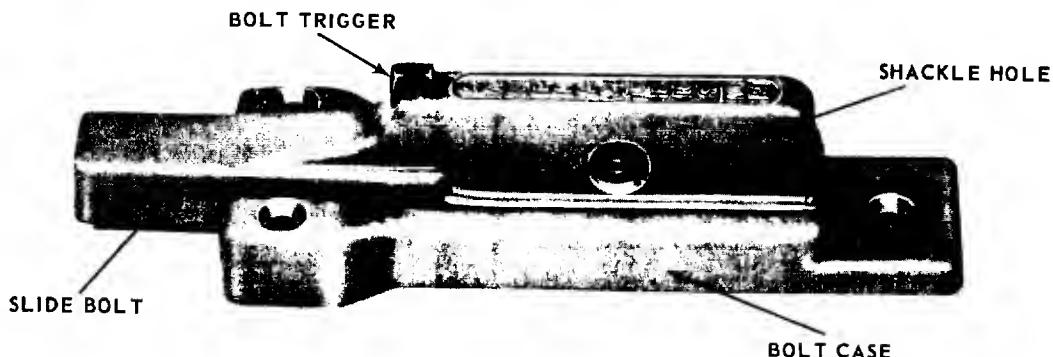


FIG. 1

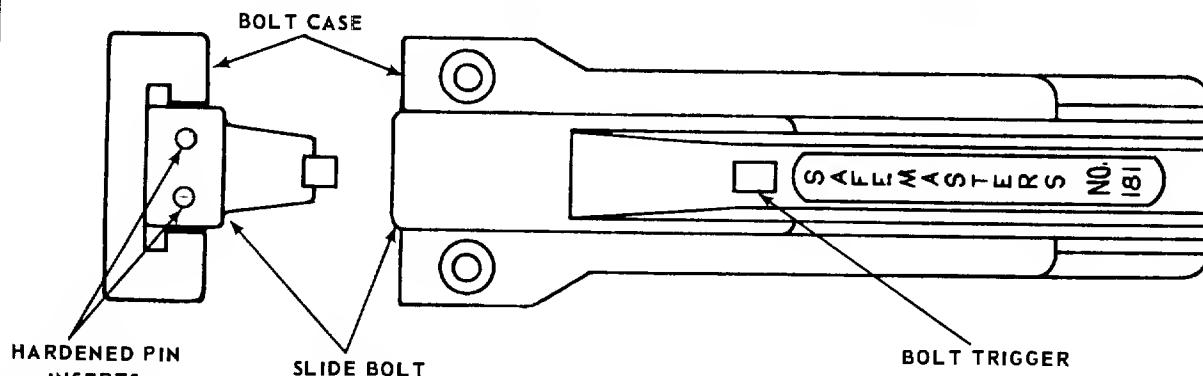


FIG. 2

HOW TO INSTALL

1. To install DEAD BOLT on door, take the unit and depress the BOLT TRIGGER.
2. Slide the BOLT towards the locked or bolt extended position until the HALF HOLE appears. (See Fig. 3)

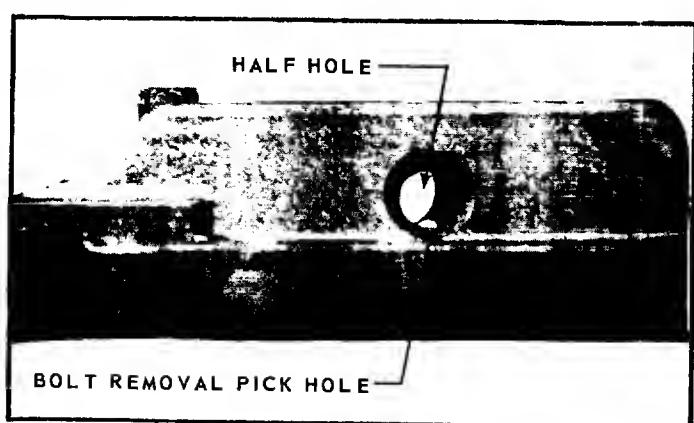


FIG. 3

3. With BOLT Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6 scratch awl or pick into the small hole under the SHACKLE hole and hold up as shown in Figure 4.

NOTE: Do not remove nail or pick from hole when SLIDE BOLT is withdrawn from BASE. It will be needed in hole for reassembly.

SLIDE BOLT TO LEFT



INSERT NAIL OR PICK INTO BOLT
REMOVAL PICK HOLE

FIG. 4

MOUNTING DETAILS

4. Before installing BOLT BASE on door, carefully read and follow drilling and locating details in template.

NOTE:

a. It is frequently necessary to install the strike first, then position and install the bolt base. **ALWAYS ALLOW** a 1/8" minimum from edge of door. SLIDE BOLT extends beyond the face of BOLT BASE.



FIG. 5

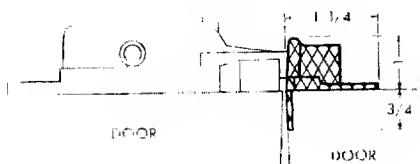
REASSEMBLY INSTRUCTIONS

5a. Insert SLIDE BOLT into BASE with nail or pick still in hole. Slide all the way in. (See fig. 5)

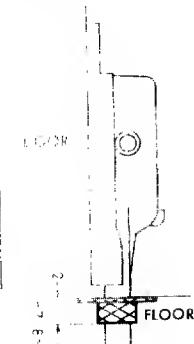
b. Remove nail and operate to assure proper operation.

STRIKE DETAIL

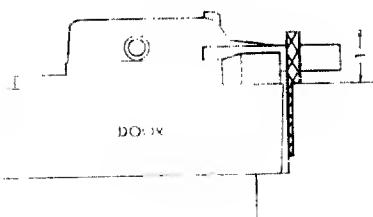
STRIKE NO. 12



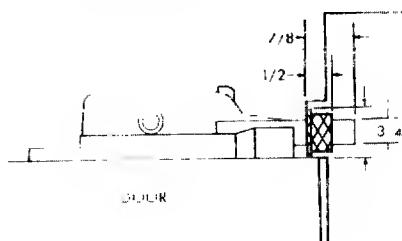
STRIKE NO. 13



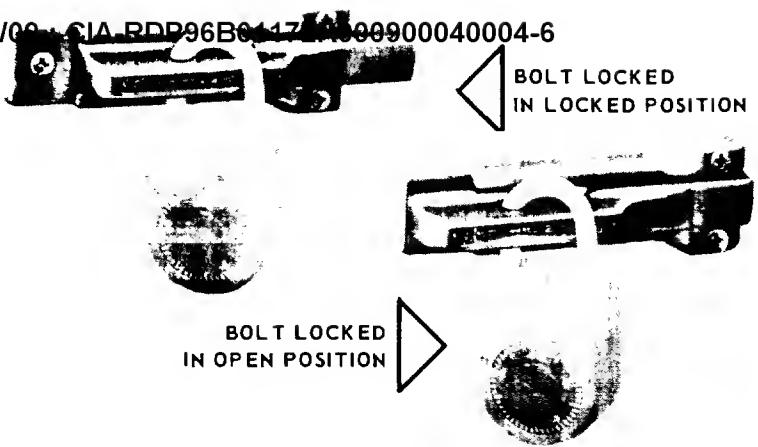
STRIKE NO. 14



STRIKE NO. 15



7. SM181 BOLT can be locked in locked (with BOLT extended or thrown) or in unlocked (open) position. For maximum padlock security, it is recommended that the SG8088 Combination Padlock permitting 100,000 key-changing combinations be used with the SM181 SLIDING DEAD BOLT.



SPECIFICATIONS

Material: Case and strikes--die cast "Zamak" alloy. Bolt--die cast "Zamak" with hard steel core pins.

Case: 5-1/4 x 1-3/4 x 1-3/8

Bolt: 7/16 x 1/2

Bolt Throw: 1

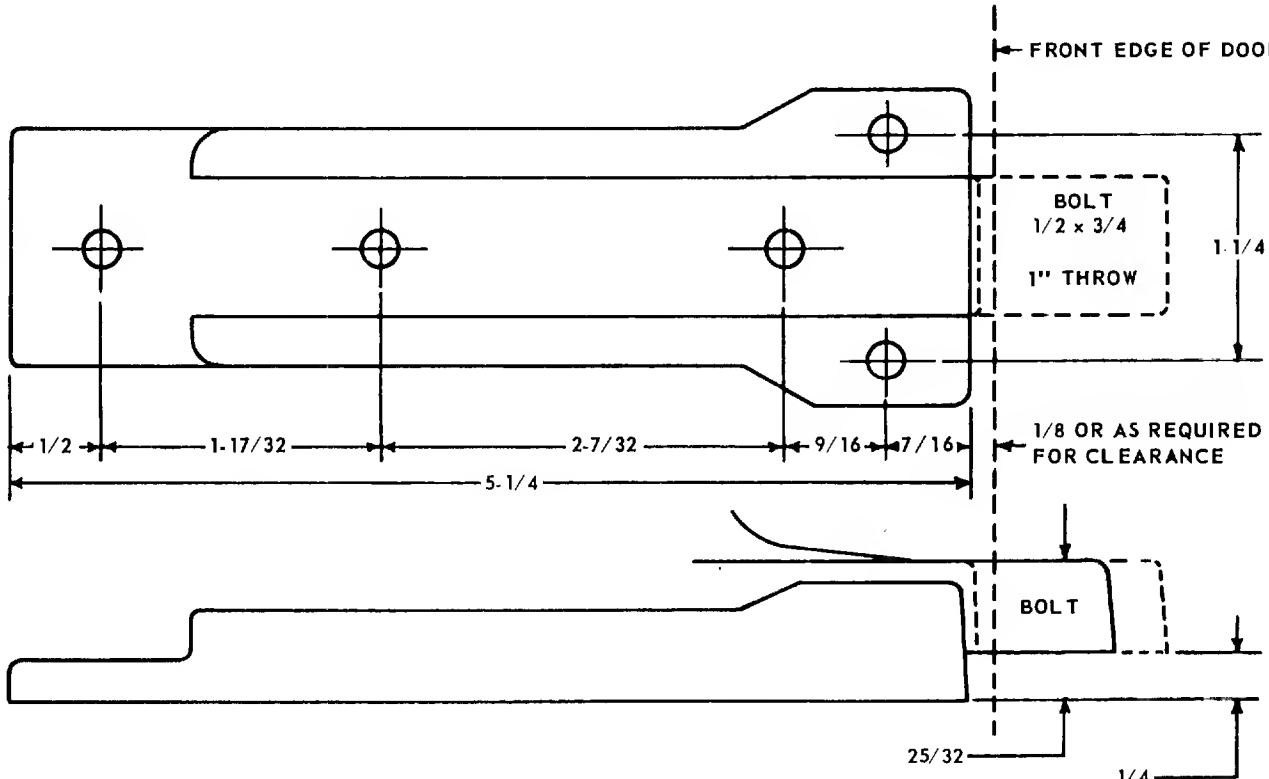
Hasp Hole: 5/16 diameter

Padlock: Not included--recommended, SG8088

Application: For right or left hand, vertical up or down or sliding sash.

Screws: No. 10 tapping screws for wood or metal.

INSTALLATION DETAIL TEMPLATE



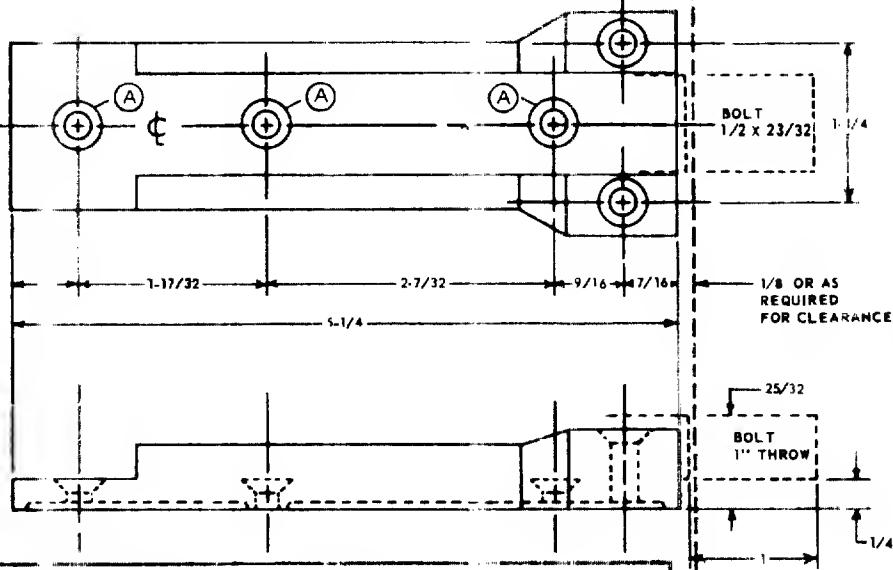
SM181 BASE

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6

SCREWS

(1) No. 10 x 7/8 FPH TAPPING (A)
 (2) No. 10 x 1-1/2 OPH TAPPING

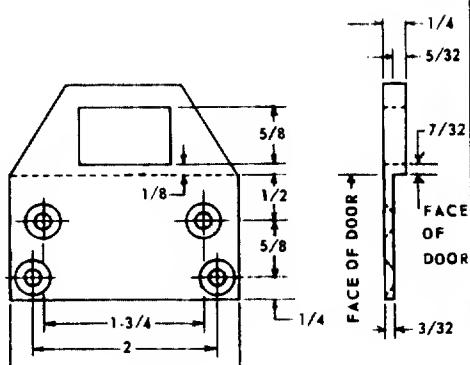
FRONT EDGE OF DOOR



NO. 14 STRIKE

SCREWS

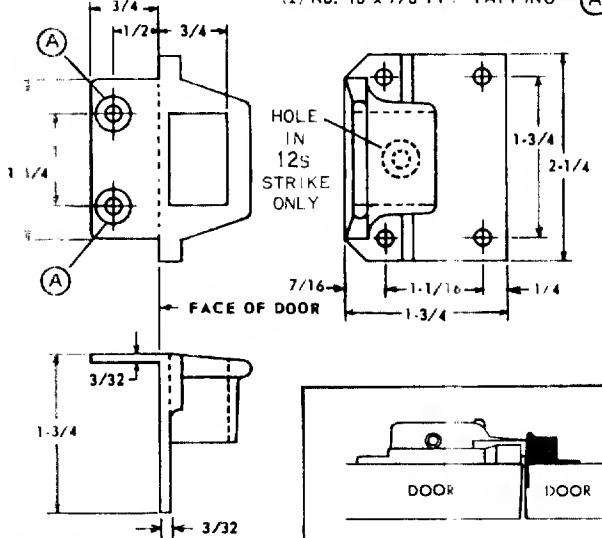
(4) No. 10 x 7/8 FPH TAPPING



NO. 12 STRIKE

SCREWS

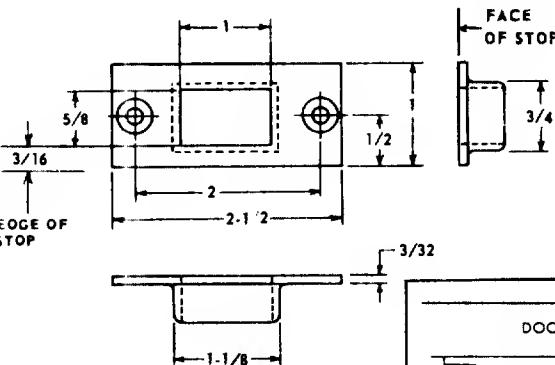
(4) No. 10 x 7/8 PAN PH TAPPING
 (2) No. 10 x 7/8 FPH TAPPING — (A)



NO. 15 STRIKE

SCREWS:

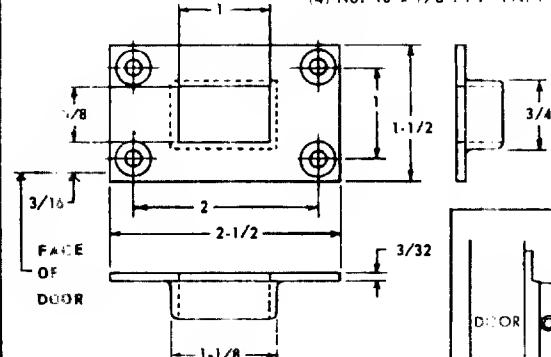
(2) No. 10 x 7/8 FPH TAPPING



NO. 13 STRIKE

SCREWS

(4) No. 10 x 7/8 FPH TAPPING



PRINTED IN U.S.A.

DRILLING AND LOCATING DETAIL FOR

SM181 SLIDING DEAD BOLT

JOB NAME

JOB NO

HDWE CONTRACTOR

HOLLOW METAL CONTRACTOR

S&G ORDER NO

ITEMS

SARGENT & GREENLEAF INC. 24 SENECA AVE. ROCHESTER N.Y. 14621	DATE 8/1/65
	SKETCH NO SK-5078
	REV

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6

Model NL-M, heavy duty, burnished chrome finish, automatic locking latch, either 100 or 200 series, equipped with Face Plate Shield. \$33.95

Model NL-M, heavy duty, burnished chrome finish, automatic locking latch, either 100 or 200 series, equipped with Key By-Pass and Face Plate Shield. \$49.00

NOTE: Specify "100" series for door thicknesses of 1-3/8" to 1-1/2".
Specify "200" series for door thicknesses of 1-3/4" to 2-1/8".

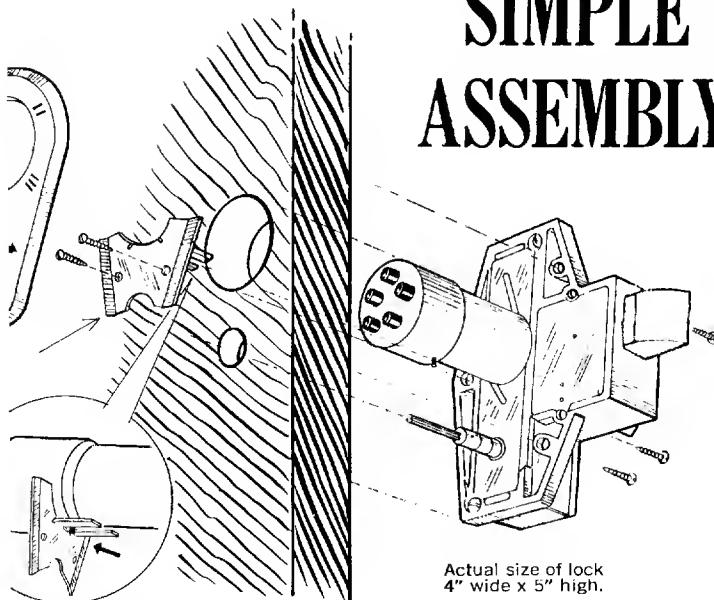


NL-100 or 200 with
Face Plate Shield



NL-100 or 200 with Key By-Pass
(Order with Face Plate Shield)

SIMPLE 3-PIECE SELF-ALIGNING ASSEMBLY INSTALLS IN MINUTES



- Ideal for do-it-yourself installation
- Drill just two holes— $\frac{3}{8}$ " and $1\frac{1}{8}$ "— $2\frac{3}{8}$ " from edge of door
- Fits left or right hand doors, inward or outward opening
- Template and instructions provided
- No adjustment necessary for varying thicknesses

100 Series—for 1 $\frac{3}{8}$ " to 1 $\frac{1}{2}$ " thick doors
200 Series—for 1 $\frac{3}{4}$ " to 2 $\frac{1}{8}$ " doors

SPECIFY EITHER 100 or 200 SERIES WHEN ORDERING MODEL NL.

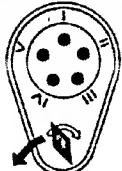
THIS LOCK IS TO BE USED FOR PERSONNEL CONTROL ONLY AND SHOULD NOT BE USED TO SECURE CLASSIFIED MATERIAL OR EQUIPMENT.

Simplex AUXILIARY LOCKS

OPERATING INSTRUCTIONS

All locks are shipped with the following combination:
II and IV pushed at the same time, then III

A Turn the control knob LEFT to activate the buttons



Turn the control knob LEFT to activate the buttons

B Press the Correct buttons in the proper Order.



Press the *Correct* buttons in the proper *Order*.

Release buttons before turning control knob.

C Turn the control knob RIGHT to open.



Turn the control knob RIGHT to open.

To lock — turn the control knob LEFT. (Model NL locks automatically).

CHANGING COMBINATIONS

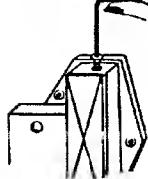
You may change combinations to any sequence you wish . . . using any or all buttons, in any order, separately or pushed at the same time with other buttons. You cannot use the same button more than once in a combination.

1 With the door open and the "SIMPLEX" locked push the existing combination.



With the door open and the "SIMPLEX" locked push the existing combination.

2 Remove the screw in the Lock Housing with the Allen wrench provided. Insert the wrench into the hole and depress the button. Remove wrench.



Remove the screw in the Lock Housing with the Allen wrench provided. Insert the wrench into the hole and depress the button. Remove wrench.

3 Turn the front control knob (marked "SIMPLEX") to the LEFT.



Turn the front control knob (marked "SIMPLEX") to the LEFT.

4 Press the buttons in the sequence desired for your new combination — firmly and deliberately. Record your new combination.



Press the buttons in the sequence desired for your new combination — firmly and deliberately. Record your new combination.

5 Turn the front control knob RIGHT. Your new combination is now installed. Before shutting the door, try it to be sure you have recorded it correctly. Replace the threaded screw in the Lock Housing.



Turn the front control knob RIGHT. Your new combination is now installed. Before shutting the door, try it to be sure you have recorded it correctly. Replace the threaded screw in the Lock Housing.

NOTE: If the front control knob opens the lock without pushing the combination, steps 3, 4 and 5 were performed out of order and your "SIMPLEX" is in a "0" combination. To reinstall a combination, follow the above steps but omit step #1.

The front control knob can NOT be forced to open the lock since it is connected to the Lock Housing by a friction clutch. If the knob has been forced, it will be at an angle and can be turned back to the vertical position by hand or with a pair of pliers without damaging the lock.

Pat. No. 3040556 – Form 2-17-65

Simplex Security Systems, Inc.
10 FRONT STREET, COLLINSVILLE, CONN. 06022 • (203) 693-8391

CYPHER[®] LOCK

Electronic Access Control / Model S

- Security with Convenience
- Silent Solid State Logic
- No Keys to Lose
- Spy Proof Push Button Simplicity
- Ten Years Proven Reliability
- Simple Installation
- Unconditional One Year Guarantee

CYPHER LOCK electronic access control is currently in use in thousands of Government, Commercial and Industrial facilities.

Over ten years of proven performance assures security and control of even the most demanding locations. The electronic solid state circuitry provides trouble-free control of protected areas.

CYPHER LOCK permits an area to be locked and alarm protected 24 hours a day, without inconveniencing authorized traffic flow or reducing exit safety.

CYPHER LOCK eliminates loss, theft or duplication problems associated with Keys.

CYPHER LOCK is composed of a spy-proof Push Button Panel and Control Box. An electric strike of your choice is available or can be purchased separately.

These units feature built-in reliability, simplicity of operation and are easily installed. Every CYPHER LOCK is guaranteed for 1 year.

OPERATION:

The spy proof panel is mounted near the door, outside the protected area. Simply press the easy-to-remember four button code combination and the door will unlock for a predetermined period. CYPHER LOCK can activate all types of electric door strikes and door operators.

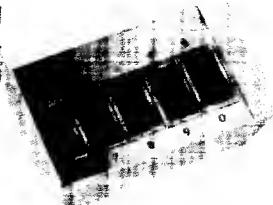
If buttons are not pressed in the correct sequence — entry can not be made. With over 5,000 possible code combinations and the built-in "Time Penalty" feature, the CYPHER LOCK becomes as manipulation-proof as a bank vault. Over 40 man-hours are needed to run all the combinations.

If exit control is required, another push button panel can be mounted inside the protected area.

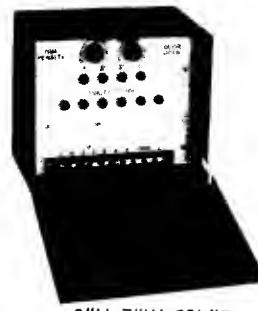


PUSH BUTTON PANEL:

The push button panel is shielded to prevent observation by unauthorized passers-by. There are 10 numbered buttons on the panel. Every panel is supplied complete with necessary mounting hardware and pre-finished cable for ease of installation.



3 3/4 "Hx4 3/4 "Wx3 1/2 "D



6" Hx7" Wx5 5/8" D

CONTROL BOX:

This electronic control box is the brain of the CYPHER LOCK system.

No special tools or skills are required to set and change entry code combination. Simply select four numbered plugs and insert them in the code sockets.

Instant setting or re-setting can be as frequent as your particular demands require. A typical reason to change code combination would be a change in shift or personnel.

The Control Box will activate any type of equipment that unlocks, opens, or releases a door . . . normally the simple electric door strike for common swinging doors.

Independent settings determine length of 'Door Open' time and 'Time Penalty.'

The Control Box can be secured with a padlock.

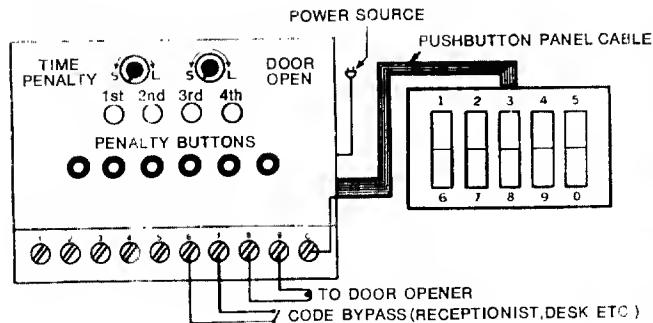


CYPHER LOCK Electronic Access Control Model S

APPLICATIONS: EDP Rooms • Labs • Museums • Lobbies • Stairwells • Gates and Turnstiles • Control of Equipment and Processes • Activate Surveillance Systems • Register Guard Tours • Cash Rooms • Hotels •

WIRING DIAGRAM FOR MODEL S:

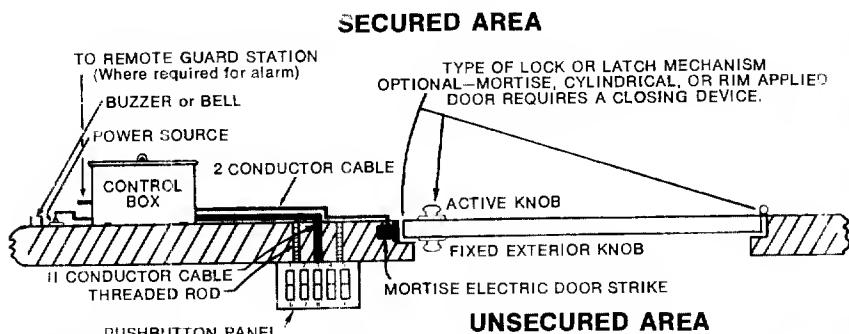
The preharnessed 11 conductor cable connects the push-button panel to the control box. Four of the ten numbered plugs are selected to make up the access combination and are plugged into the upper row of sockets marked 1st, 2nd, 3rd, and 4th. (Example: Plug #5 in the first socket, #4 in the second socket, #2 in the third socket, and #1 in the fourth socket. The sequential combination is now 5-4-2-1.) The remaining six plugs are then plugged into the lower row of sockets marked Penalty Buttons. The eleventh conductor is common and attached to the terminal marked "C".



INSTALLATION:

Installation of the unit requires simply mounting the pushbutton panel to the exterior wall with the use of threaded rod (see drawing). Then run the supplied wires to the various parts as per drawing. CYPHER's low voltage output will operate most electric door strikes (6 volt D.C. devices standard, other voltages upon request) allowing the installer to choose according to existing door style. The input cord plugs into a standard "U" ground outlet for 115 VOLT AC.

(TOP VIEW OF SECTIONED WALL AND DOOR)



ORDERING INFORMATION:

The basic CYPHER Model "S" consists of one (1) electronic control box; one (1) standard pushbutton panel; 10 ft. of 11 conductor cable; 10 ft. of 2 conductor output cable; two (2) 10/32" x 12" threaded rods; two (2) 10/32" caps nuts and two (2) #10 flat washers. **Note:** Customer must order or supply door strike. Shipping weight—9 lbs. Carton size—9 x 10 x 12 inches.

OTHER CYPHER LOCK MODELS FOR ALARM APPLICATIONS

HOLD-UP ALARM/MODEL SC

Permits normal entry by authorized personnel but silently activates a signal to the monitor when entry is being made under duress.

SINGLE ERROR ALARM/MODEL SE

The first incorrect or out of sequence number pressed at pushbutton panel will instantly activate an alarm (not supplied). Automatic reset of alarm contacts is achieved by pressing the correct combination.

DOUBLE ERROR ALARM/MODEL DE

An alarm can be activated when the second consecu-

tive error is made at the pushbutton panel. This allows an authorized person to make a chance mistake. Automatic reset of alarm contacts is achieved by pressing the correct combination.

ALL PURPOSE ALARM/MODEL S100

This mode incorporates all the features of the standard Model S, Hold Up and Error Alarm models. It also incorporates access indicating contacts (to alert security center that authorized entry has been made) and shunt contacts (to bypass alarm systems for authorized entry). Battery powered with direct power available.





CYPHER[®] LOCK

Electric Strikes

MORTISE TYPE No. 001 SATIN BRASS, No. 001C SATIN CHROME

Used with Mortise entrance lock having a latch bolt. Reversible for Right or Left Hand Doors.

NEW, SHALLOW, 1 $\frac{1}{8}$ " maximum depth (Ideal for narrow metal door stiles)

Standard, full size SOLID BRASS Face Plate. New, stronger electro-mechanical interior with heavy duty coils. Improved screw type terminals.

Face: SOLID BRASS

Case & Parts: STEEL, HEAVY GAUGE

Electro-Magnets: COPPER WIRE

Voltage: 3 to 6 volts DC

Latch: EXTRUDED BRASS

Size: 5 $\frac{7}{8}$ " H x 1 $\frac{1}{4}$ " W x 1 $\frac{1}{8}$ " D

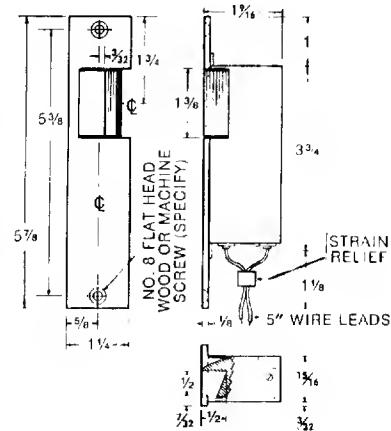
No. 001 Satin Brass Finish (US4)

No. 001C Satin Chromium Finish (US26D)

Packed: One in a box with wood screws.

Weight: 3/4 lb. each

AVAILABLE IN OTHER VOLTAGES



RIM (Surface) TYPE/No. 006

Used in combination with Rim Lock having a latch bolt. Reversible for Right or Left Hand Doors.

Electro-mechanical interior with heavy duty coils.

Case: IRON

Interior: STEEL, HEAVY GAUGE

Electro-Magnets: COPPER WIRE

Voltage: 3 to 6 volts DC

Latch: EXTRUDED BRASS

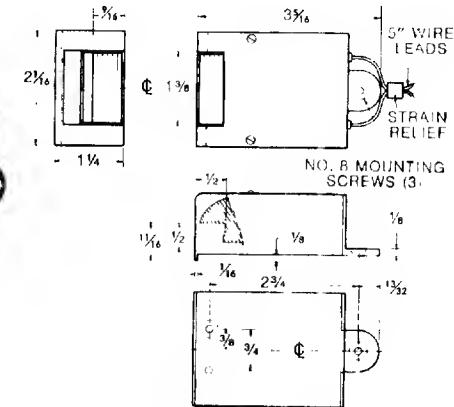
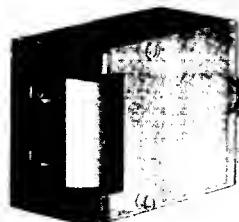
Size: 2 $\frac{1}{8}$ " H x 1 $\frac{1}{4}$ " W x 3 $\frac{1}{8}$ " D

No. 006 Brass Finish

Packed: One in a box with wood screws.

Weight: 1 lb. each.

AVAILABLE IN OTHER VOLTAGES



MORTISE TYPE No. 007 (A.S.A. STANDARD) SATIN BRASS

No. 007C SATIN CHROME

Used with CYLINDRICAL (BORED) type Mortise Locks.

Dimensions of face plate conform to A.S.A. Standards (No. A115-2-1959) for lock strike cutout in steel door frames. (Modify lip depth to 1 $\frac{1}{8}$ ") Reversible for Right or Left Hand Doors.

Electro-mechanical interior with heavy duty coils.

Face: SOLID FORGED BRASS

Case & Parts: STEEL, HEAVY GAUGE

Electro-Magnets: COPPER WIRE

Voltage: 3 to 6 volts DC

Latch: EXTRUDED BRASS

Size: 4 $\frac{7}{8}$ " H x 1 $\frac{1}{4}$ " W x 3 $\frac{1}{8}$ " D

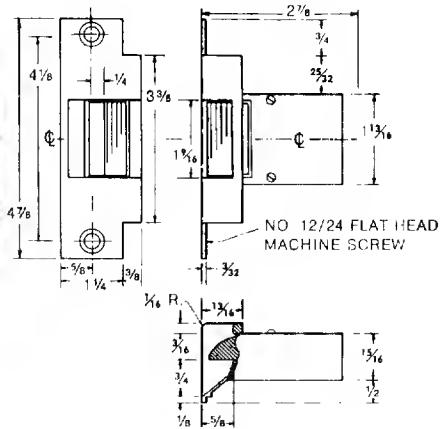
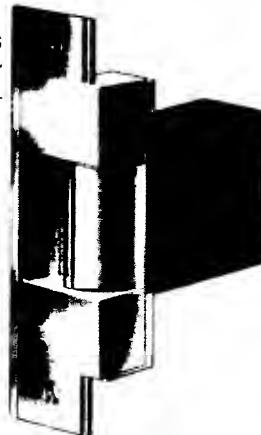
No. 007: Satin Brass Finish (US4)

No. 007C: Satin Chromium Finish (US26D)

Packed: One in a box with Mach. screw

Weight: 1 lb. each.

AVAILABLE IN OTHER VOLTAGES





CYPHER LOCK Electric Strikes

MORTISE TYPE: NO. 7520

Used with Adams Rite Mortise Deadlatch 4511. Reversible for Right or Left hand doors.

Electro-mechanical operation thru solenoid switches which retracts a block bar to allow access.

FACE: Aluminum, ANSI Standards

CASE AND PARTS: Steel Heavy Gage

ELECTRO-MAGNETS: Copper Wire

LATCH: Extruded Brass

CASE SIZE: $1\frac{1}{8}$ " x 4" x $1\frac{1}{2}$ "

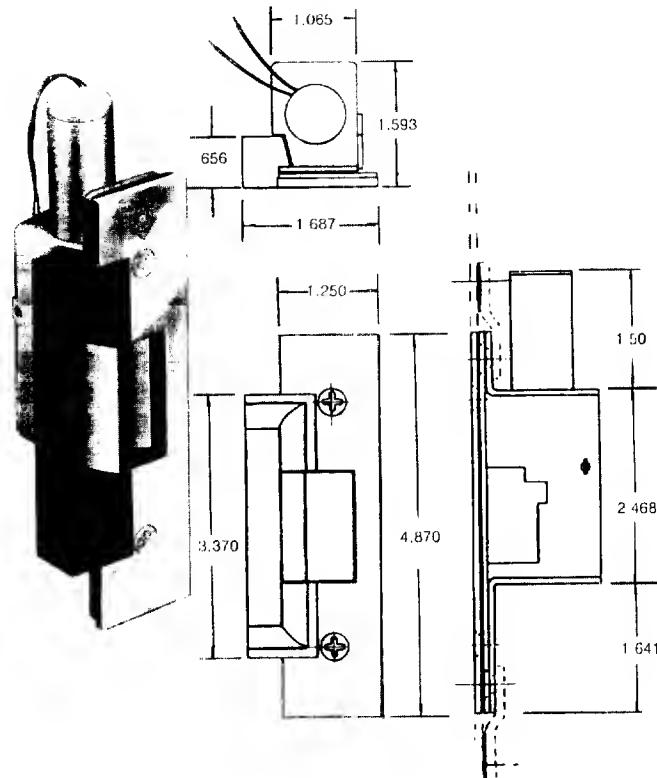
FACE PLATE SIZE: $1\frac{1}{4}$ " x $4\frac{7}{8}$ "

FINISH: US28

VOLTAGES: 10 to 24 Volts AC—6 to 12 Volts DC

PACKED: 1 in a box with Machine Screws

WEIGHT: 1 lb. each



MORTISE TYPE: No. 310-2

Used with Mortise and cylindrical locks. Reversible for Right or Left hand doors.

Listed by Underwriters' Laboratories, Inc. both as a burglary protection device and as a fire door accessory.

May be energized continuously.

FACE: Cast Brass

CASE: Stainless Steel

SOLENOID ACTUATED

LATCH: Extruded Brass

SIZE: 9"H x $1\frac{3}{8}$ "W x $1\frac{5}{8}$ "D

FINISH: Satin Chromium Plated (US26D) Others upon request

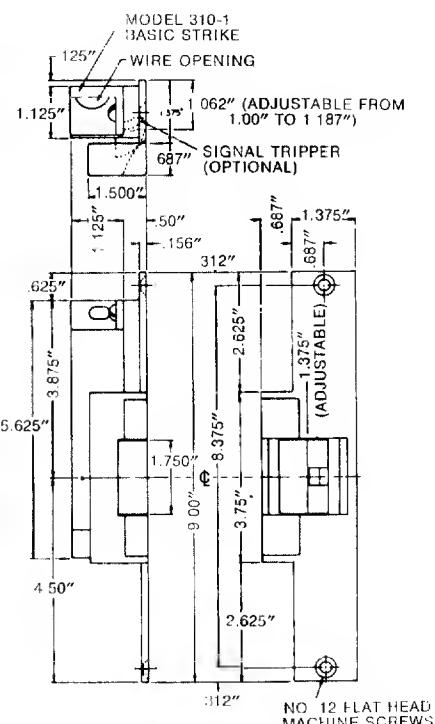
VOLTAGES: 12, 24 or 115 AC—6, 12, 24 48 or 115 DC

PACKED: 1 in a box

WEIGHT: 3 lbs. each

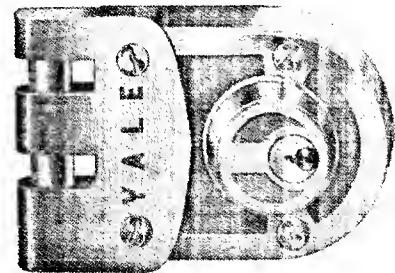
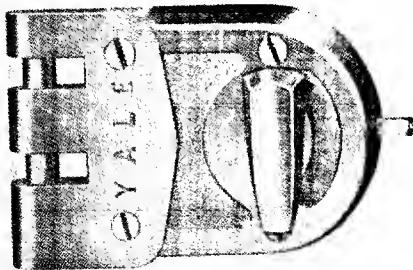
AVAILABLE IN FOREIGN VOLTAGES

and with internal switches to sense door latch



Approved for Release 2000-09-07 : CIA-RDP96B011Z00090046-0004-6 Grand / CENTURY II
3327 Royal Ave., Oceanside, N.Y. 11572 • Phone (516) 678-3733 • Telex 961360

heavy-duty deadlocks with shutter



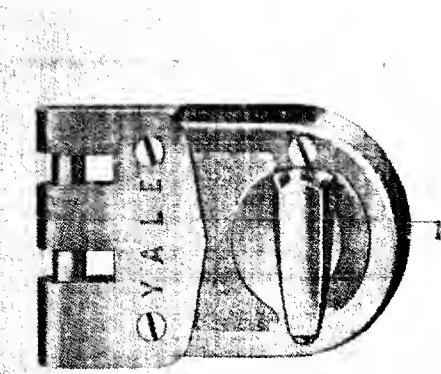
197

APPLICATION: $2\frac{3}{8}$ " backset. For $1\frac{3}{8}$ " to $3\frac{1}{8}$ " doors of either hand, opening in, and double sliding doors. Rim strike only.

OPERATION: Interlocking bolts operated by key outside, knob inside. Automatic shutter guard prevents forced entry even when outside cylinder is removed.

MATERIAL: Rustless metal case and strike, dull bronze finish. Two hardened steel bolts. Bronze cylinder.

KEYING: No. ~~1109~~ cylinder. Five or six pin tumblers. Two No. 8 keys. Changes practically unlimited. Master-keyed and grand master-keyed.



197 $\frac{1}{4}$

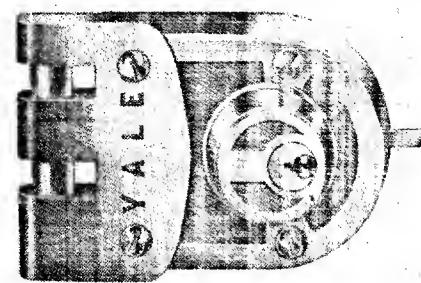
APPLICATION: $2\frac{3}{8}$ " backset. Flange on case. For $1\frac{3}{8}$ " to $3\frac{1}{8}$ " doors of either hand, opening in, and double sliding doors. Rim strike only.

OPERATION: Interlocking bolts operated by key outside and inside. Automatic shutter guard prevents forced entry even when outside cylinder is removed.

One-way case screws prevent removal of lock.

MATERIAL: Rustless metal case and strike, dull bronze finish. Two hardened steel bolts. Bronze cylinders.

KEYING: No. ~~1109~~ cylinder outside. Five or six pin tumblers. Two No. 8 keys. Changes practically unlimited. Master-keyed and grand master-keyed.



197F

APPLICATION: $3\frac{1}{2}$ " backset from strike face. For $1\frac{3}{8}$ " to $3\frac{1}{8}$ " doors of either hand, opening out, and single sliding doors. Flat strike only.

OPERATION: Interlocking bolts operated by key outside, knob inside. Automatic shutter guard prevents forced entry even when outside cylinder is removed.

MATERIAL: Rustless metal case and strike, dull bronze finish. Two hardened steel bolts. Bronze cylinder.

KEYING: No. ~~1109~~ cylinder. Five or six pin tumblers. Two No. 8 keys. Changes practically unlimited. Master-keyed and grand master-keyed.

197 $\frac{1}{4}$ F

APPLICATION: $3\frac{1}{2}$ " backset from strike face. Without flange on case. For $1\frac{3}{8}$ " to $3\frac{1}{8}$ " doors of either hand, opening out, and single sliding doors. Flat strike only.

OPERATION: Interlocking bolts operated by key outside and inside. Automatic shutter guard prevents forced entry even when outside cylinder is removed.

One-way case screws prevent removal of lock.

MATERIAL: Rustless metal case and strike, dull bronze finish. Two hardened steel bolts. Bronze cylinders.

KEYING: No. ~~1109~~ cylinder outside. Five or six pin tumblers. Two No. 8 keys. Changes practically unlimited. Master-keyed and grand master-keyed.

Order all models with 1709 cylinder

Approximate price of each model - \$10.00

TYPE	CLASS 3 (MOSLER) UNINSULATED	CLASS 4 (DIEBOLD) UNINSULATED	CLASS 6 (MOSLER) UNINSULATED	CLASS 6 MAP AND PLAN (MOSLER) UNINSULATED	CLASS 5 SECURITY VAULT DOOR (MOSLER) UNINSULATED	CLASS 6 SECURITY VAULT DOOR (MOSLER) UNINSULATED
Domestic Security Containers and Vault Doors MARCH 1980						
PROTECTION						
MAN-MINUTES AGAINST SURREPTITIOUS ENTRY	20	20	30	30	30	30
MAN-MINUTES AGAINST FORCED ENTRY	NO TEST	5	NO TEST	NO TEST	10	NO TEST
MAN-HOURS AGAINST MANIPULATION OF THE LOCK	20	20	20	20	20	20
MAN-HOURS AGAINST RADIOLOGICAL ATTACK	20	20	20	20	20	20
STOCK NUMBER	7110-551-5263 (5 DR) 7110-551-5259 (4 DR) 7110-687-8955 (2 DR)	7110-878-3288 (4 DR) 7110-823-7338 (2 DR)	7110-919-9193 (5 DR) 7110-920-9343 (4 DR) 7110-920-9342 (2 DR)	7110-931-0771	7110-935-1885— R. SWING W/ OPTICAL DEVICE. 7110-935-1886— R. SWING W/O OPTICAL DEVICE. 7110-935-1882— L. SWING W/ OPTICAL DEVICE. 7110-935-1883— L. SWING W/O OPTICAL DEVICE.	7110-935-1879— R. SWING W/ OPTICAL DEVICE. 7110-935-1880— R. SWING W/O OPTICAL DEVICE.
WEIGHT	610 485 310	850 500	705 585 385	620	1050	794
COST (SUBJECT TO YEARLY CHANGE)	349.00 311.00 231.00	520.00 315.00	959.00 859.00 585.00	\$1112.00	W/Optical Devices \$1916.00	1,066.00
NOTES	REPLACED BY CLASS 6	REPLACED BY CLASS 5				
			AFTER 1981 LOCK BOX WILL HAVE CARRIAGE MATRIX			
				IF VERTICAL CHANNELS DO NOT SWING WHEN IN USE, THEN SPECIFY MODEL NUMBER AND DATE OF MANUFACTURE		
				R. SPECIFY WALL THICKNESS D. SPECIFY SWING DIRECTION C. ORDER WITH S/G GROUP IN KEY		
					AFTER 1981 LOCK BOX WILL HAVE CARRIAGE MATRIX	
						AFTER 1981 LOCK BOX WILL HAVE CARRIAGE MATRIX

TYPE	CLASS IF (DIEBOLD) INSULATED	CLASS I (DIEBOLD) INSULATED	CLASS 2 C (DIEBOLD) UNINSULATED	CLASS 3-E (DIEBOLD) UNINSULATED	CLASS 5F (DIEBOLD) UNINSULATED	CLASS 5 MAP AND PLAN (MOSLER) UNINSULATED	CLASS 5 SECURITY VAULT DOOR (MOSLER) UNINSULATED	CLASS 6 SECURITY VAULT DOOR (MOSLER) UNINSULATED
Overseas Security Containers and Vault Doors MARCH 1980	 MODEL SI-14 MODEL SI-12	 MODEL SI-24 MODEL SI-22	 MODEL SI-55 MODEL SI-55	 MODEL 60-54 MODEL 60-52	 MODEL SI7 MODEL SI5	 MODEL 2	 MODEL 1	 MODEL 2
PROTECTION	MAN-MINUTES AGAINST EXPLOSIONS/URGENT ENTRY MAN-MINUTES AGAINST FORCED ENTRY MAN-HOURS AGAINST MANIPULATION OF THE LOCK MAN-HOURS AGAINST RADIOPHYSICAL ATTACK	30 10 5 20 (1 HOUR PER EYE PROTECTION)	20 5 10 20 (1 HOUR PER EYE PROTECTION)	30 10 20 20 (1 HOUR PER EYE PROTECTION)	30 10 20 20 (1 HOUR PER EYE PROTECTION)	30 10 20 20 (1 HOUR PER EYE PROTECTION)	30 10 20 20 (1 HOUR PER EYE PROTECTION)	30 10 20 20 NO TEST
STOCK NUMBER	710-933-9157 (+ 04+) 710-144-5605 (+ 04+)	710-976-4852 (+ 04+) S&G GP, IR 710-976-4850 (+ 04+) COMB. LOCK	7110-102-7845 (+ 04+) 7110-102-8469 (+ 04+)	7110-052-6112 (+ 04+) 7110-052-6111 (+ 04+)	7110-102-5926 (+ 04+) 7110-102-5927 (+ 04+)	7110-931-0770	7110-935-1855 7110-935-1856 L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE 7110-935-1857 L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE	7110-935-1857 7110-935-1856 L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE 7110-935-1857 L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE L. SWING W/O OPTICAL DEVICE R. SWING W/O OPTICAL DEVICE
WEIGHT	1150 720	1100 630	920 562	530 485	1090 540	590 540	1050 1050	794 1066 00
COST (\$1000'S) (EACH)	\$1,458.00 \$895.00	\$635.00 \$395.00	\$715.00 \$475.00	\$633.68 \$484.07	\$1,406.00 \$858.00	\$1,275.00 \$1,275.00	\$/Optical Device \$116.00	\$/Optical Device \$116.00
NOTES	A. APPROVED FOR OVERSEAS USE ONLY WHERE THREAT OF FIRE IS A MAJOR CONCERN. B. CONTROL PANEL HAS RADIO MATRIX & CALL FEATURES TO TEST ROLLING AND RADIOGRAPHY ATTACKS. C. REPLACES DIEBOLD SP.	A. APPROVED FOR OVERSEAS USE WHERE THREAT OF FIRE IS A MAJOR CONCERN. B. CONTROL PANEL HAS RADIO MATRIX & CALL FEATURES TO TEST ROLLING AND RADIOGRAPHY ATTACKS. C. REPLACES DIEBOLD SP.	REPLACED BY DIEBOLD SP	A. ENLARGED BY DIEBOLD SP B. CONTROL PANEL HAS RADIO MATRIX & CALL FEATURES TO TEST ROLLING AND RADIOGRAPHY ATTACKS. C. CONTROLS SPANS 24 HOURS D. EXCHANGED BY DIEBOLD SP E. SAME NAME MODELS NUMBERS AS DIEBOLD SP	A. IDENTICAL TO SPANISH IF ACCEPTED IT IS UNINSULATED. B. REQUIRES SPANISH LANGUAGE C. CONTROLS SPANS 24 HOURS D. EXCHANGED BY DIEBOLD SP E. SAME NAME MODELS NUMBERS AS DIEBOLD SP	A. SPECIFY WALL THICKNESS B. SPECIFY WALL THICKNESS C. SPECIFY WALL THICKNESS D. SWING WITH 90 DEGREE IP E. SWING WITH 90 DEGREE OP F. SPECIFY WALL THICKNESS G. CONTROLS SPANS 24 HOURS H. EXCHANGED BY DIEBOLD SP I. CONTROL PANEL HAS RADIO MATRIX & CALL FEATURES TO TEST ROLLING AND RADIOGRAPHY ATTACKS. J. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL K. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL L. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL M. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL N. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL O. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL P. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Q. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL R. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL S. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL T. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL U. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL V. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL W. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL X. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Y. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Z. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL	A. SPECIFY WALL THICKNESS B. SPECIFY WALL THICKNESS C. SPECIFY WALL THICKNESS D. SWING WITH 90 DEGREE IP E. SWING WITH 90 DEGREE OP F. SPECIFY WALL THICKNESS G. CONTROLS SPANS 24 HOURS H. EXCHANGED BY DIEBOLD SP I. CONTROL PANEL HAS RADIO MATRIX & CALL FEATURES TO TEST ROLLING AND RADIOGRAPHY ATTACKS. J. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL K. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL L. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL M. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL N. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL O. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL P. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Q. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL R. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL S. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL T. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL U. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL V. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL W. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL X. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Y. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL Z. AFTER THIS LOCK DOOR WILL HAVE CAPTION MATERIAL	

The  ROCKMASTERS* SCHOOL Guide to Safe Labels
S.M.N.A. LABELING PROCEDURE

SAFE MANUFACTURERS NATIONAL ASSOCIATION, INC.
300 MARINER AVENUE
NEW YORK, N.Y. 10017

SPECIFICATION	TYPE OF LABEL	SMNA CLASSIFICATION	SMNA DESIGNATION	TYPE OF PRODUCT FOR USE OF SMNA LABELS		BACKGROUND
				1 Hour Tested Fire-Resistive Safe with Impact Test	2 Hour Tested Fire-Resistive Safe with Impact Test	
F-1-D	Fire-Insulated Safe	Class "A"	Y	4 Hours Tested Fire-Resistive Safe with Impact Test	Green	
F-1-D	Fire-Insulated Safe	Class "B"	Y	2 Hours Tested Fire-Resistive Safe with Impact Test	Green	
F-1-D	Fire-Insulated Safe	Class "C"	Y	1 Hour Tested Fire-Resistive Safe with Impact Test	Green	
F-1-D	Fire-Insulated Record Container	Class "C"	Y	1 Hour Tested Fire-Resistive Container with Impact Test	Green	
F-2-D	Fire-Insulated Record Container Data Processing Safe	Class "150"	Y	1, 2, 3 & 4 Hours Tested Fire-Resistive Container with Impact Test (Impact Test Required)	Green	
F-2-HD	Fire-Insulated Container	Class "I"	W	1/2 Hour Tested Fire-Resistive Container without Impact Test	Black	
F-2-HD	Fire-Insulated Container	Class "D"	W and Y	1 Hour Tested Fire-Resistive Container without Impact Test	Black	
F-3	Fire-Insulated Vault Door	2 Hours	Y	2 Hours Tested Fire-Resistive Vault Door	Green	
F-3	Fire-Insulated Vault Door	4 Hours	Y	4 Hours Tested Fire-Resistive Vault Door	Green	
F-3	Fire-Insulated Vault Door	6 Hours	Y	& Hours Tested Fire-Resistive Vault Door	Green	
F-4	Fire-Insulated File Room Doors	1 Hours	Y	1 Hours Tested Fire-Resistive File or Storage Room Doors	Black	

MONEY CHESTS AND ROBBERY RESISTIVE PRODUCTS

UR 1	Burglary-Resistive Chest	Groups U-1 2-4-5-6-7	Y	Burglary-Resistive Underwriters' Laboratories Unlabeled Chest	Red
RR 1	Burglary/Robbery-Resistive Container	Groups 2-4-5-6-7-10	Y	Burglary/Robbery-Resistive Containers	Black

"W" LABLE INFORMATION MAY BE USED ONLY IN RETAIL
PLACE OF PRODUCT IN SIGHT OR LOS.

"Y" LABLE INFORMATION IS USED ON ALL PRODUCTS
RETAINED AT HOME FROM RETAIL

SMNA SPECIFICATIONS FOR
BURGLARY / ROBBERY-RESISTIVE PRODUCTS

GROUP 3—Round door chests, body thickness 1" minimum, door thickness 1½" exclusive of bolt work and locking mechanism, locking mechanism to be lug or bolt type. If lug type, bolts to be protected by drill resistive inserts or pins. Body to be of cast or welded construction or a combination of cast and welded construction. Cast bodies to be SAE 1020 or equal steel, welded bodies to be of commercial steel. Door to be of one piece of equivalent material. Fit of door, equipped with combination lock, to be not more than .004" clearance between door and jamb, at any point, with hinge removed.

GROUP 4—Round door chests, body thickness 1" minimum, door thickness 1½" minimum exclusive of bolt work and locking mechanism. Locking mechanism to be lug or bolt type. If lug type, bolts to be protected by drill resistive inserts or pins. Body to be of cast or welded construction or a combination of cast and welded construction. Cast bodies to be SAE 1020 or equal steel, welded bodies to be of commercial steel. Door to be of one piece equivalent in strength to that used for bodies, fit of door to be not more than .004" clearance between door and jamb, at any point, with hinge removed. Door to be equipped with combination lock.

GROUP 5—Rectangular door chests. Body to be 1" minimum, door to be 1½" minimum, exclusive of bolt work and locking mechanism. Body and door to be of commercial steel plates of laminated or welded construction, equipped with combination lock.

GROUP 6—Round or rectangular door containers. Body thickness ½" minimum, door 1" minimum exclusive of bolt work and locking mechanism. Constructed of commercial steel, laminated or welded. Door equipped with a combination or a key lock.

GROUP 8—Containers consisting of wall safes and similar products with body thickness not less than ¼" and door thickness not less than ½". Door equipped with a combination or a key lock.

GROUP 10—Containers such as lockers, truck boxes, etc. Door equipped with a combination or a key lock.

GROUP 12—Any industry product in any class which is equipped with a deposit slot which is accessible from the exterior of the container. This slot voids any fire or burglary rating to which the product would otherwise be entitled.

NOTE: The term "thickness" applies to thickness of steel, which may be solid or laminated.
SAE means Society of Automotive Engineers.

SMNA SPECIFICATIONS FOR
UNDERWRITERS' LABORATORIES LABELED CHESTS

GROUP U-1—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TXTL-60.

GROUP U-2—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TRTL-60.

GROUP U-4—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TRTL-30.

GROUP U-5—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TL-30.

GROUP U-6—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TL-15.

GROUP U-7—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label "KL".

The  **CLOCKMASTERS® SCHOOL** Guide to Safe Labels
S.M.N.A. LABELING PROCEDURE

SAFE MANUFACTURERS NATIONAL ASSOCIATION, INC.
 300 MADISON AVENUE
 NEW YORK, N.Y. 10017

SMNA SPECIFICATION						TYPE OF PRODUCT FOR USE OF SMNA LABELS		BACKGROUND	
SMNA SPECIFICATION	TYPE OF LABEL	SMNA CLASSIFICATION	SMNA DESIGNATION	TYPE OF PRODUCT FOR USE OF SMNA LABELS	BACKGROUND				
F 1-D	Fire-Insulated Safe	Class "A"	Y	4 Hour Tested Fire-Resistive Safe with Impact Test	Green				
F 1-D	Fire-Insulated Safe	Class "B"	Y	2 Hour Tested Fire-Resistive Safe with Impact Test	Green				
F 1-D	Fire-Insulated Safe	Class "C"	Y	1 Hour Tested Fire-Resistive Safe with Impact Test	Green				
F 1-D	Fire-Insulated Record Container	Class "C"	Y	1 Hour Tested Fire-Resistive Container with Impact Test	Green				
F 2-D	Fire-Insulated Record Container Data Processing Safe	Class "150"	Y	1, 2, 2 or 4 Hour Fire-Resistive Data Processing Safe (Impact Tested Unloaded)	Green				
F 2-HD	Fire-Insulated Container	Class "E"	W	½ Hour Tested Fire-Resistive Container without Impact Test	Black				
F 2-HD	Fire-Insulated Container	Class "D"	W and Y	1 Hour Tested Fire-Resistive Container without Impact Test	Black				
F 3	Fire-Insulated Vault Door	2 Hour	Y	2 Hour Tested Fire-Resistive Vault Doors	Green				
F 3	Fire-Insulated Vault Door	4 Hour	Y	4 Hour Tested Fire-Resistive Vault Doors	Green				
F 3	Fire-Insulated Vault Door	6 Hour	Y	6 Hour Tested Fire-Resistive Vault Doors	Green				
F 4	Fire-Insulated File Room Door	1 Hour	Y	1 Hour Tested Fire-Resistive File or Storage Room Doors	Black				
MONEY CHESTS AND ROBBERY RESISTIVE PRODUCTS									
UR 3	Burglary-Resistive Chest	Group U-1-2-4-5-6-7	Y	Burglary-Resistive Underwriters' Laboratories Labeled Chest	Red				
RR 1	Ruggerly/Robbery-Resistive Container	Group 3-4-5-6-9-10	Y	Ruggerly/Robbery-Resistive Containers	Black				
M 1	Deposit Chute Container	Group 12	Y	Deposit Chute Containers	Black				

"W" LABEL DESIGNATION MAY BE USED ONLY IF RETAIL
PRICE OF PRODUCT IS \$75 OR LESS.

"Y" LABEL DESIGNATION IS USED ON ALL PRODUCTS
RETAILING AT MORE THAN \$75.

**SMNA SPECIFICATIONS FOR
BURGLARY / ROBBERY-RESISTIVE PRODUCTS**

GROUP 3—Round door chests, body thickness 1" minimum, door thickness 1½" exclusive of bolt work and locking mechanism, locking mechanism to be lug or bolt type. If lug type, bolts to be protected by drill resistive inserts or pins, outside surface of body and door to be case hardened or of equivalent drill resistance. Body to be made of one piece, SAE 1020 or equal steel casting, forging or rolled steel. Door to be made of one piece of equivalent material. Fit of door, equipped with combination lock, to be not more than .004" clearance between door and jamb, at any point, with hinge removed.

GROUP 4—Round door chests, body thickness 1" minimum, door thickness 1½" minimum exclusive of bolt work and locking mechanism. Locking mechanism to be lug or bolt type. If lug type, bolts to be protected by drill resistive inserts or pins. Body to be of cast or welded construction or a combination of cast and welded construction. Cast bodies to be SAE 1020 or equal steel, welded bodies to be of commercial steel. Doors to be of steel equivalent in strength to that used for bodies, fit of door to be not more than .004" clearance between door and jamb, with hinge removed. Door to be equipped with combination lock.

GROUP 5—Rectangular door chests. Body to be 1" minimum, door to be 1½" minimum, exclusive of bolt work and locking mechanism. Body and door to be of commercial steel plates of laminated or welded construction, equipped with combination lock.

GROUP 6—Round or rectangular door containers. Body thickness ½" minimum, door 1" minimum exclusive of bolt work and locking mechanism. Constructed of commercial steel, laminated or welded. Door equipped with a combination or a key lock.

GROUP 8—Containers consisting of wall safes and similar products with body thickness not less than ¼" and door thickness not less than ½". Door equipped with a combination or a key lock.

GROUP 10—Containers such as lockers, truck boxes, etc. Door equipped with a combination or a key lock.

GROUP 12—Any industry product in any class which is equipped with a deposit slot which is accessible from the exterior of the container. The slot voids any fire or burglary rating to which the product would otherwise be entitled.

NOTE: The term "thickness" applies to thickness of steel, which may be solid or laminated.
SAE means Society of Automotive Engineers.

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GROUP U-2—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TRTL-60.

GROUP U-4—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TRTL-30.

GROUP U-5—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TL-30.

GROUP U-6—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label TL-15.

GROUP U-7—Chests to conform with requirements for and bear Underwriters' Laboratories, Inc. Label "KL".

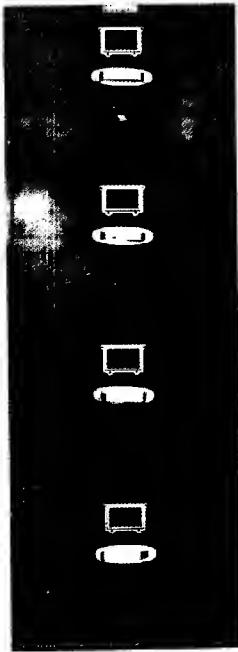
Approved For Release 2001/08/09 : CIA-RDP96B01172R00090040004-6

HISTORICAL PROGRESSION OF CLASS 2 INSULATED SECURITY CONTAINERS

20 MINUTES SURREPTITIOUS ENTRY PROTECTION
5 MINUTES FORCED ENTRY PROTECTION
1 HOUR FIRE PROTECTION

①

HHM TWIST HANDLE



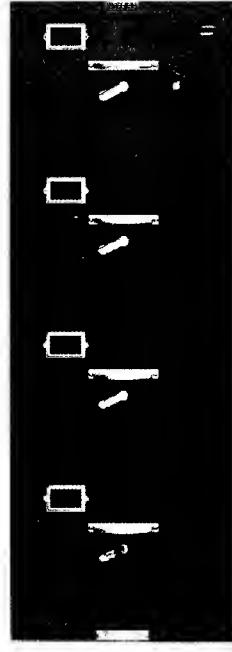
②

HHM INTERMEDIATE



③

HHM LAST MODEL



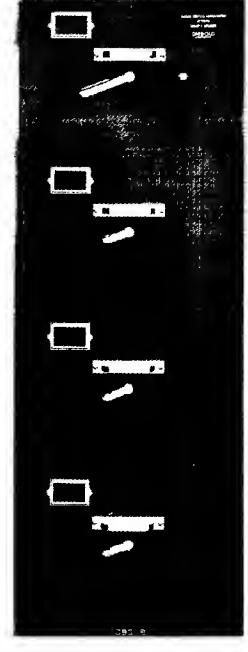
④

DIEBOLD FIRST MODEL



⑤

DIEBOLD LATEST MODEL



- TWIST HANDLE IN CENTER OF CONTROL DRAWER
- S/G LOCK BELOW TWIST HANDLE
- ALL 4 DRAWERS HAVE 2 LOCKING BOLTS

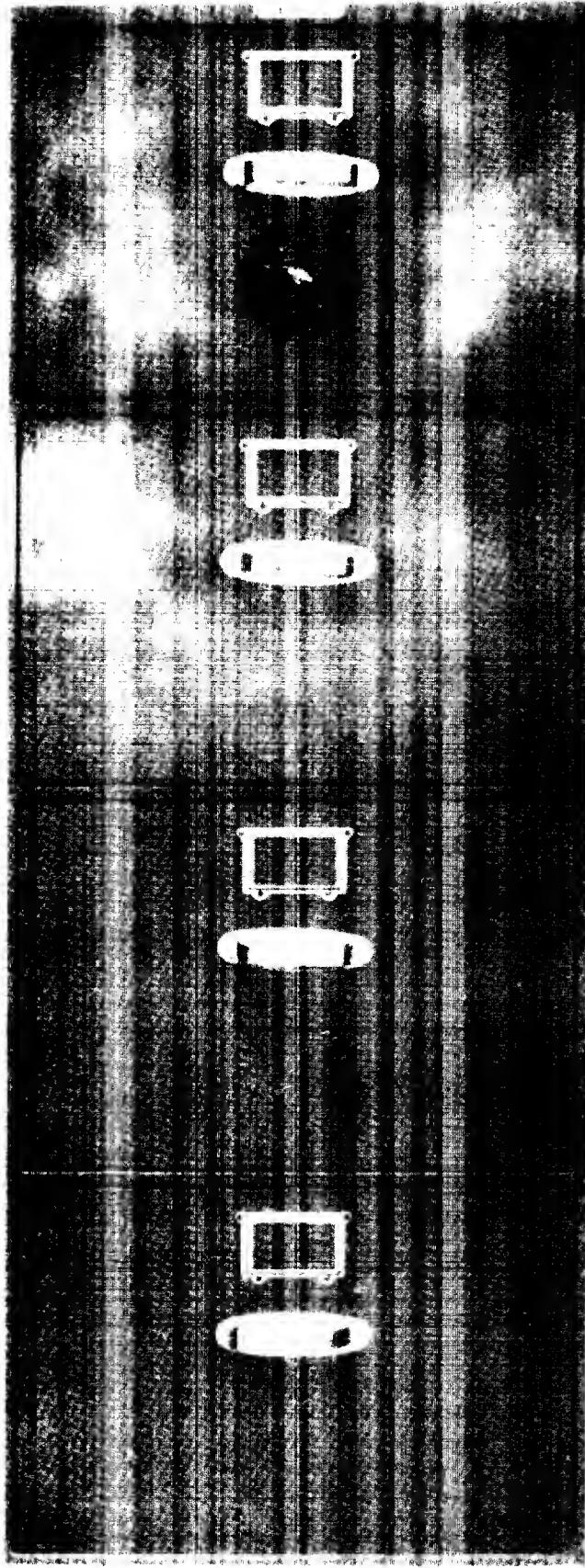
- HANDLE IN CENTER OF CONTROL DRAWER
- THUMB LATCH IS BELOW HANDLE
- S/G LOCK BELOW THUMB LATCH
- ALL 4 DRAWERS HAVE 2 LOCKING BOLTS

- HANDLE IN CENTER OF CONTROL DRAWER
- THUMB LATCH BELOW HANDLE
- S/G LOCK TO RIGHT OF THUMB LATCH
- ALL 4 DRAWERS HAVE 6 LOCKING BOLTS

- HANDLE IN CENTER OF CONTROL DRAWER
- ELONGATED (3") THUMB LATCH BELOW HANDLE
- S/G LOCK TO RIGHT OF THUMB LATCH
- TOP AND BOTTOM DRAWERS HAVE 4 LOCKING BOLTS AND SECONDARY DRAWERS HAVE 2 LOCKING BOLTS

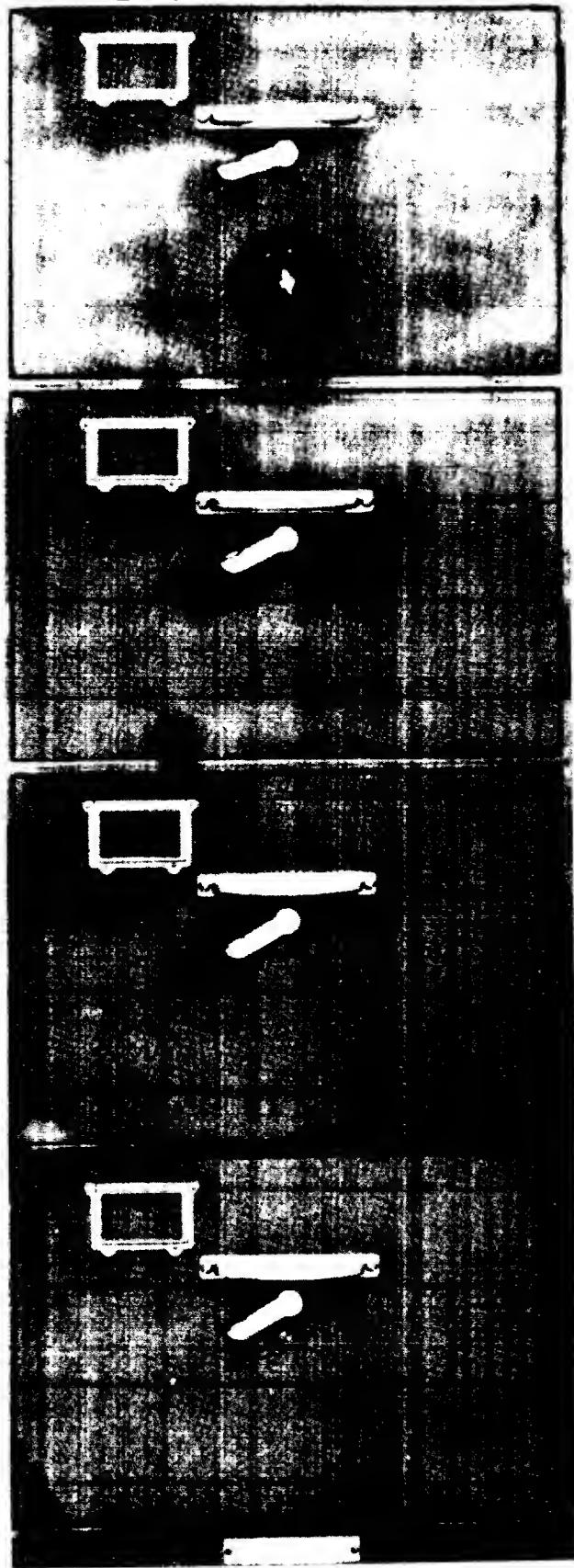
- NEW TYPE ALUMINUM HANDLE IN CENTER OF CONTROL DRAWER
- ELONGATED (3") THUMB LATCH BELOW HANDLE
- S/G LOCK TO RIGHT OF THUMB LATCH
- TOP AND BOTTOM DRAWERS HAVE 4 LOCKING BOLTS AND SECONDARY DRAWERS HAVE 2 LOCKING BOLTS
- CONTAINER HAS A ROUGH CRACKLE FINISH

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6



Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6
Herring Hall Marvin Twist Handle Model (55-1)

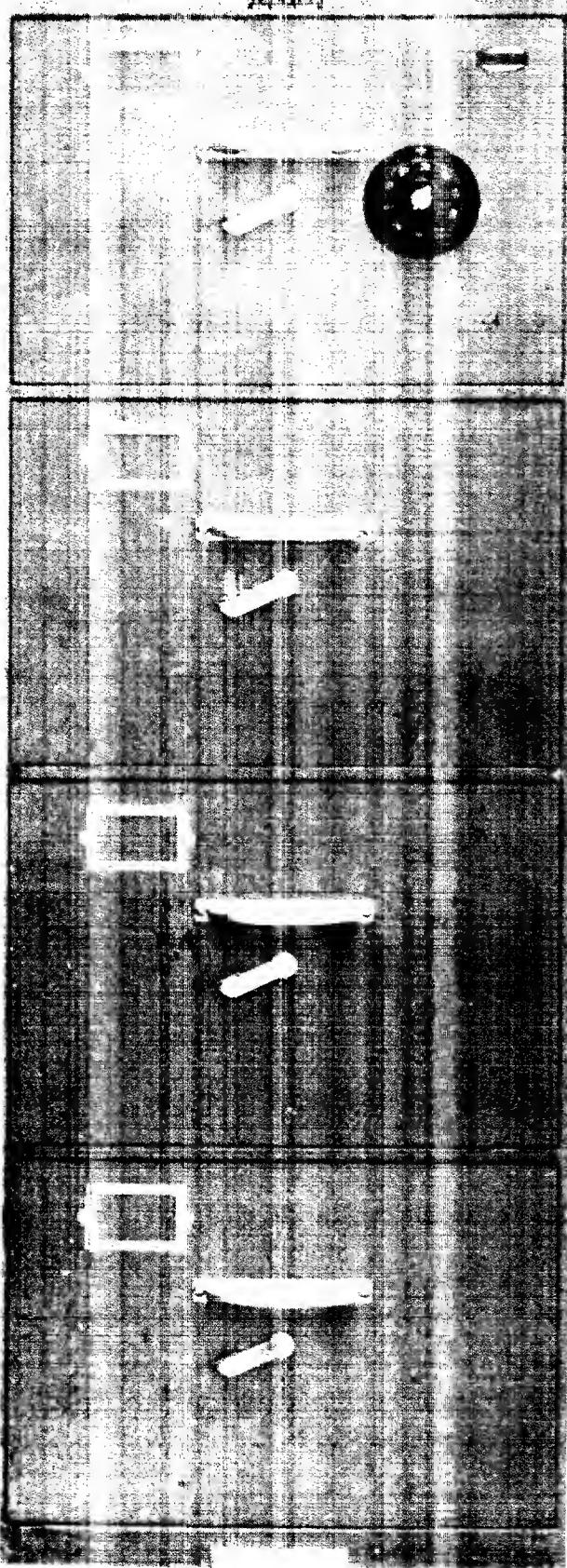
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Herring Hall Marvin Intermediate Model (55-1)

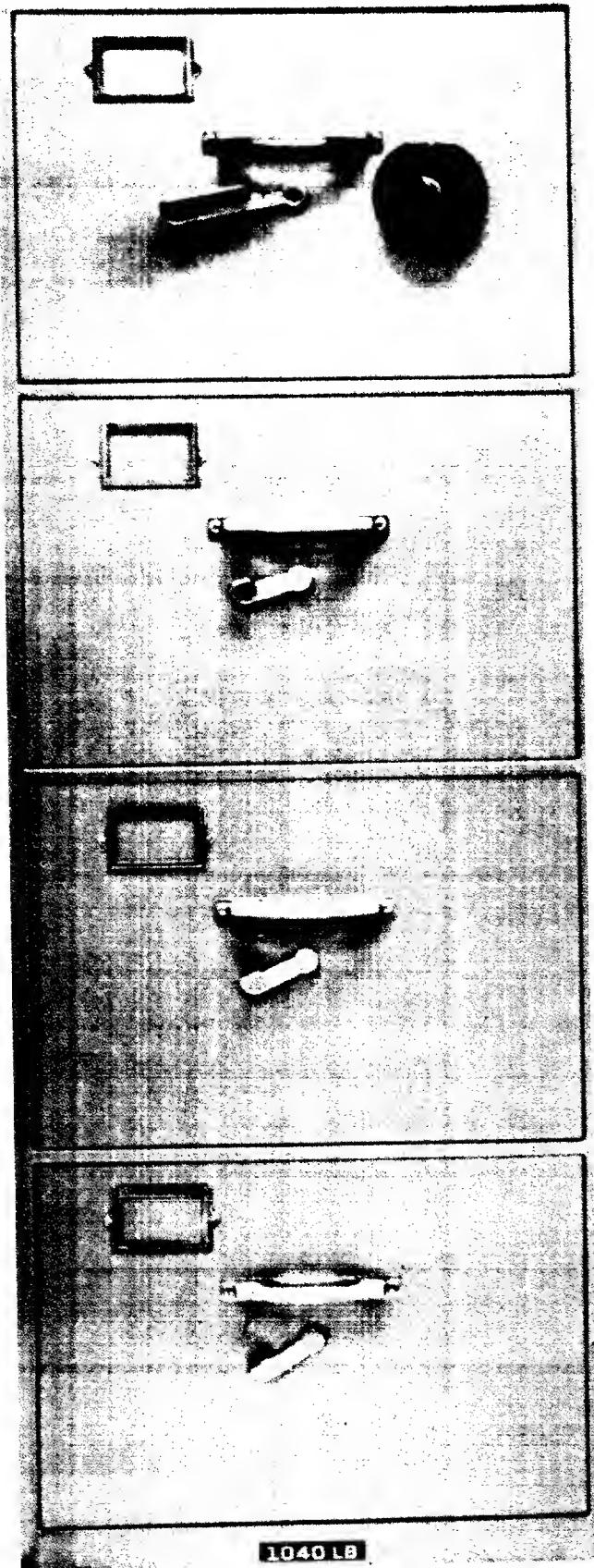
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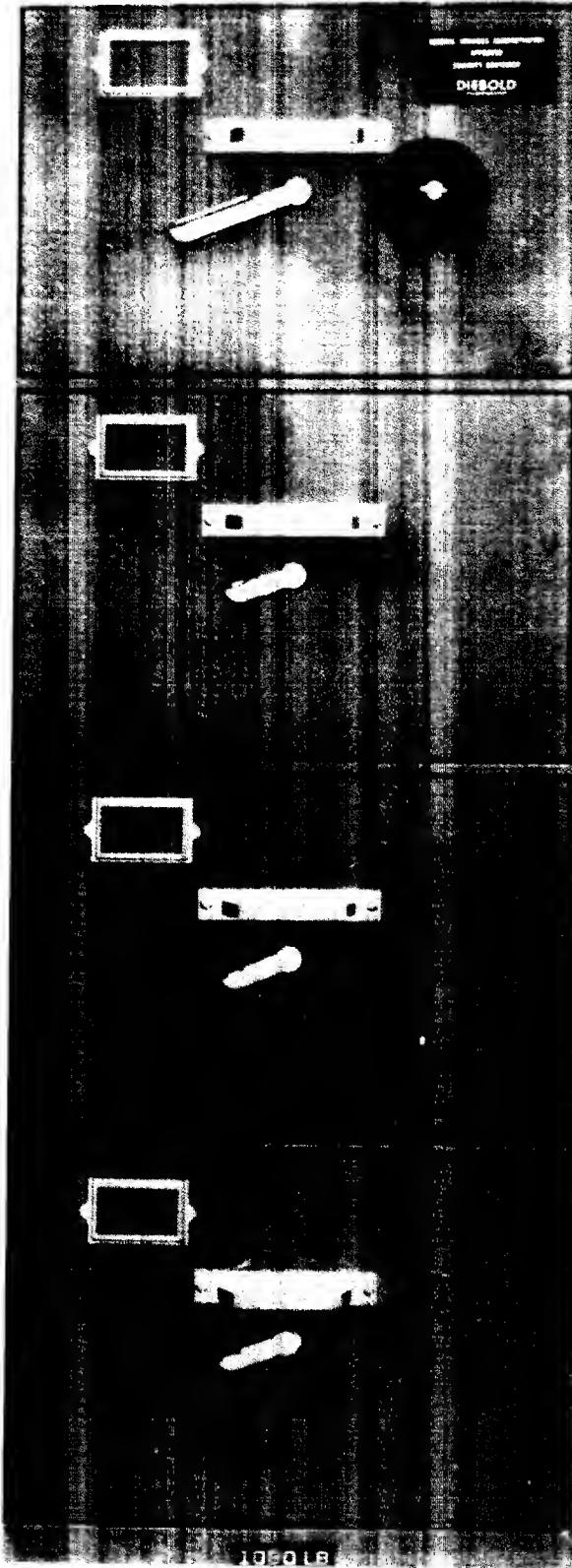
Herring Holl Marvin Last Model 56-5 to 20-63
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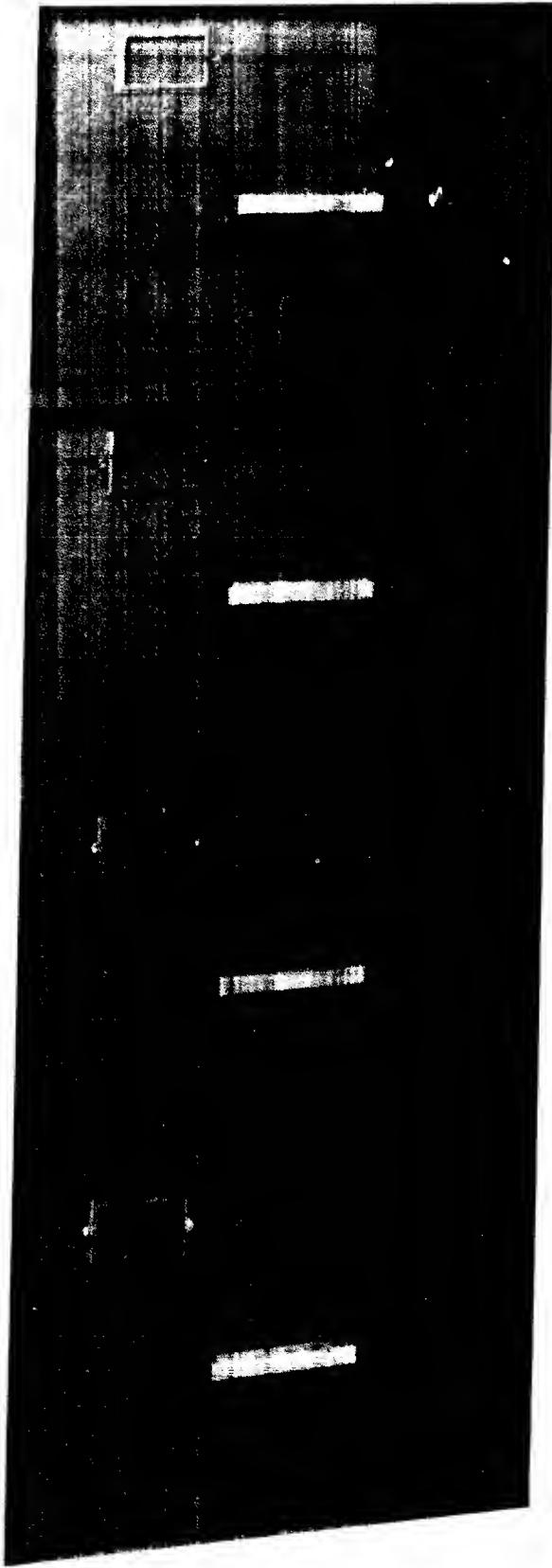
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Diebold Class 2E Model 22-68

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and
Diebold Class 2E Model 51-24

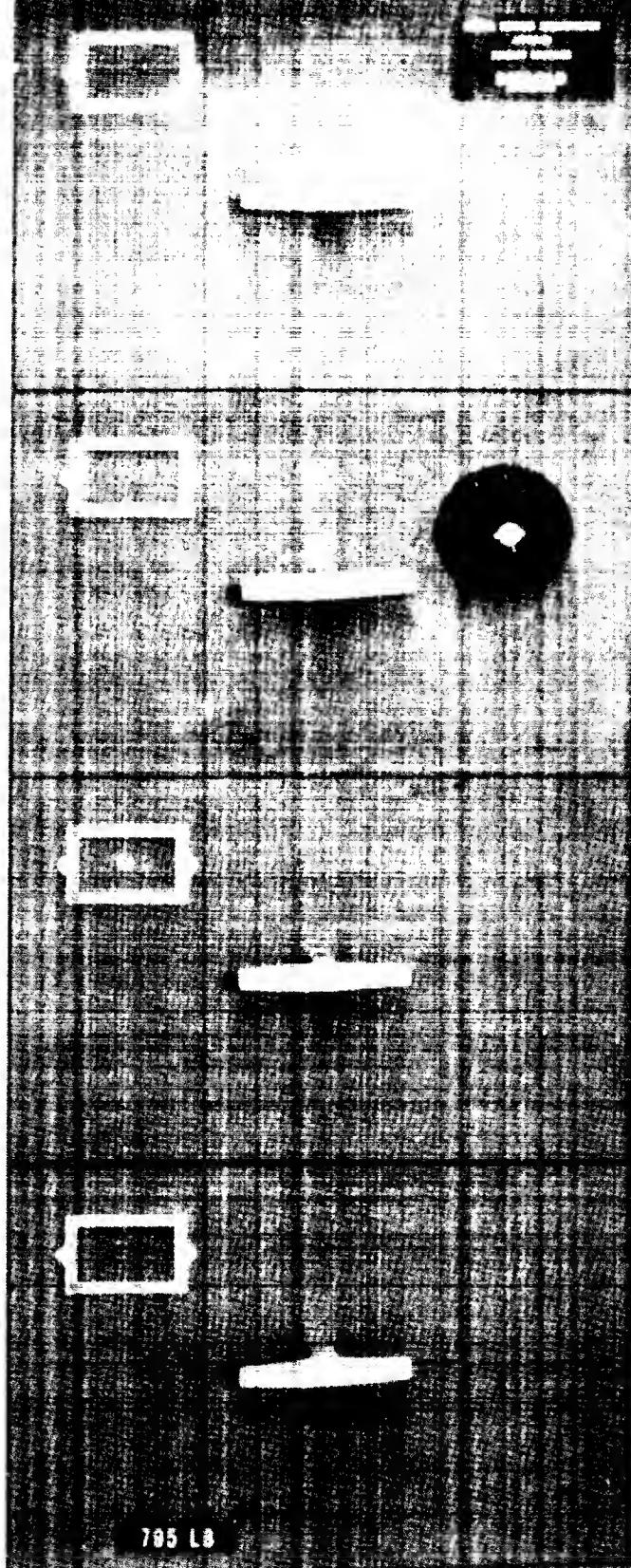
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Diebold Class 5C Model 66-54

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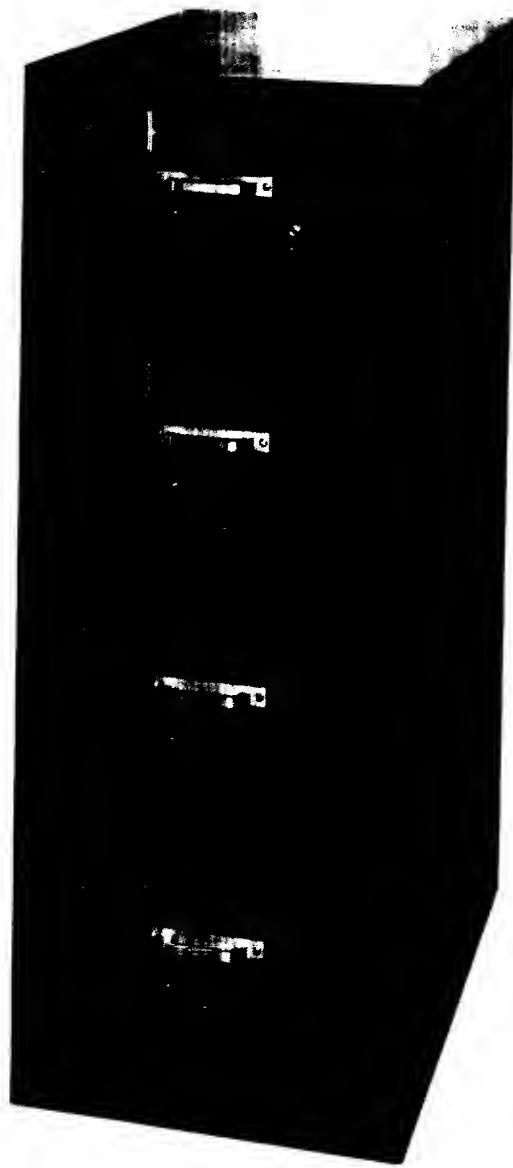
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Diebold Class 5E Model 68-54

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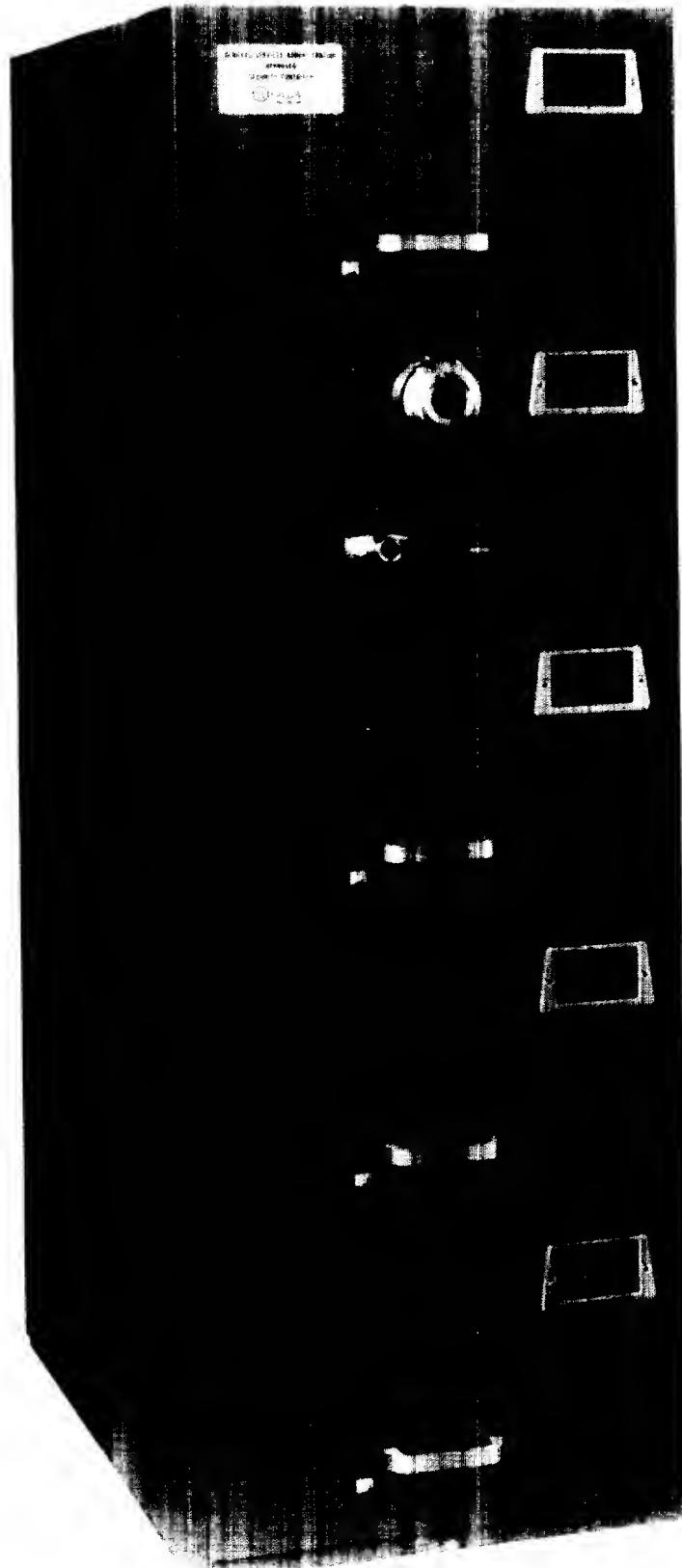


DIEBOLD CLASS 1F

SECURITY FILE
CLASS 5F IS PHOTOGRAPHI-
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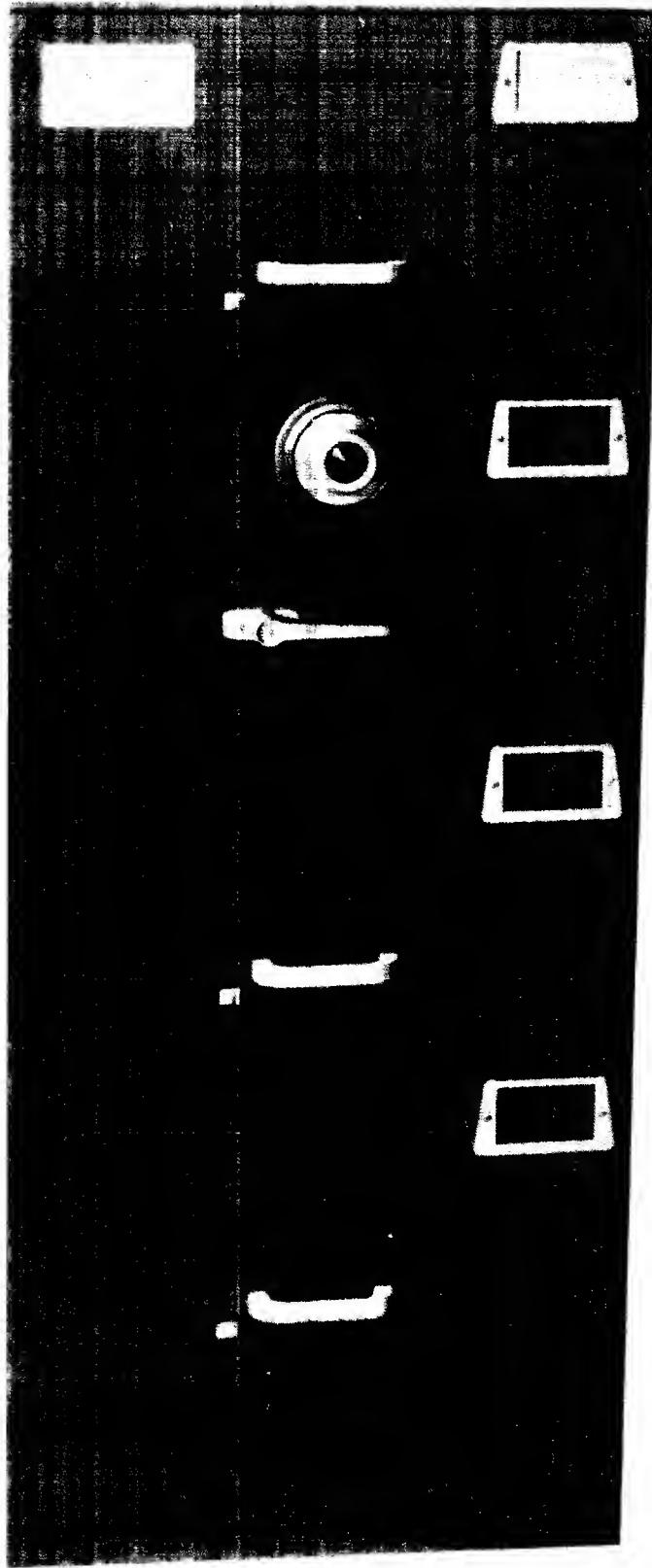


Mosler Class 3

Five Drawer

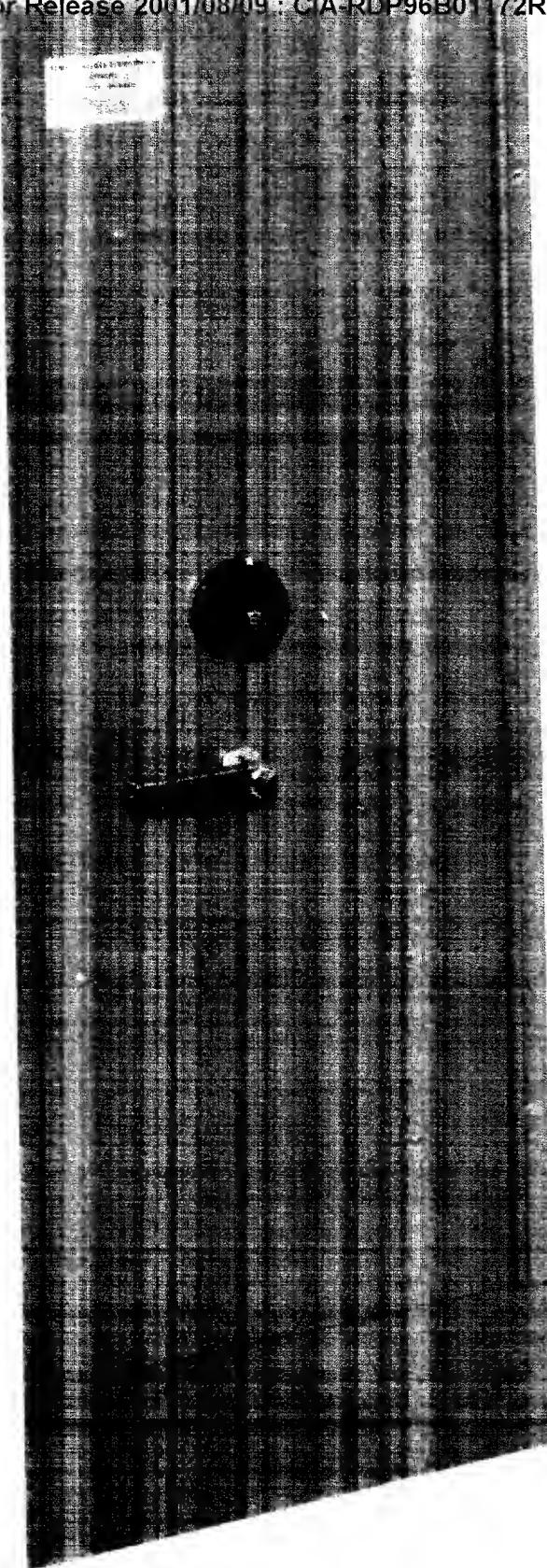
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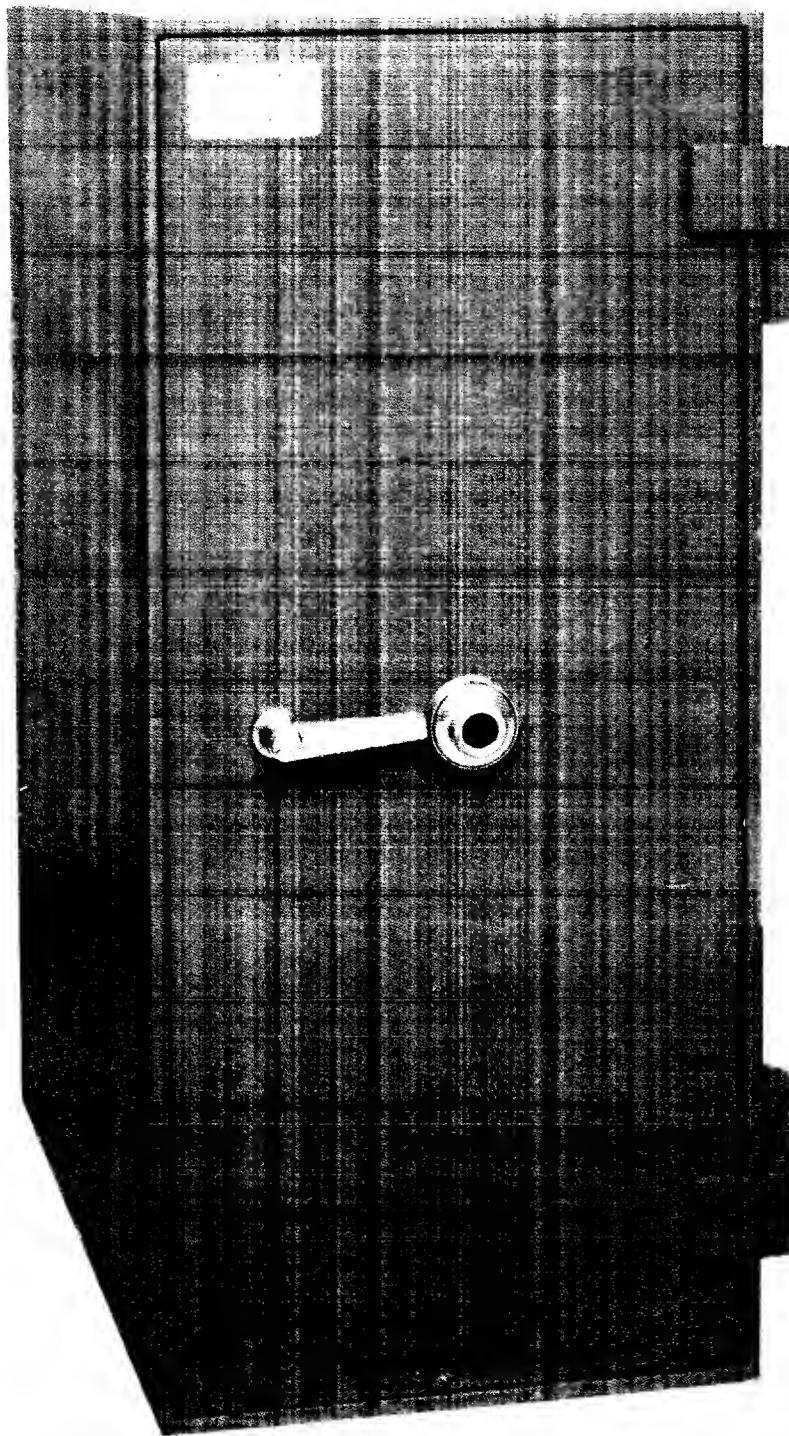
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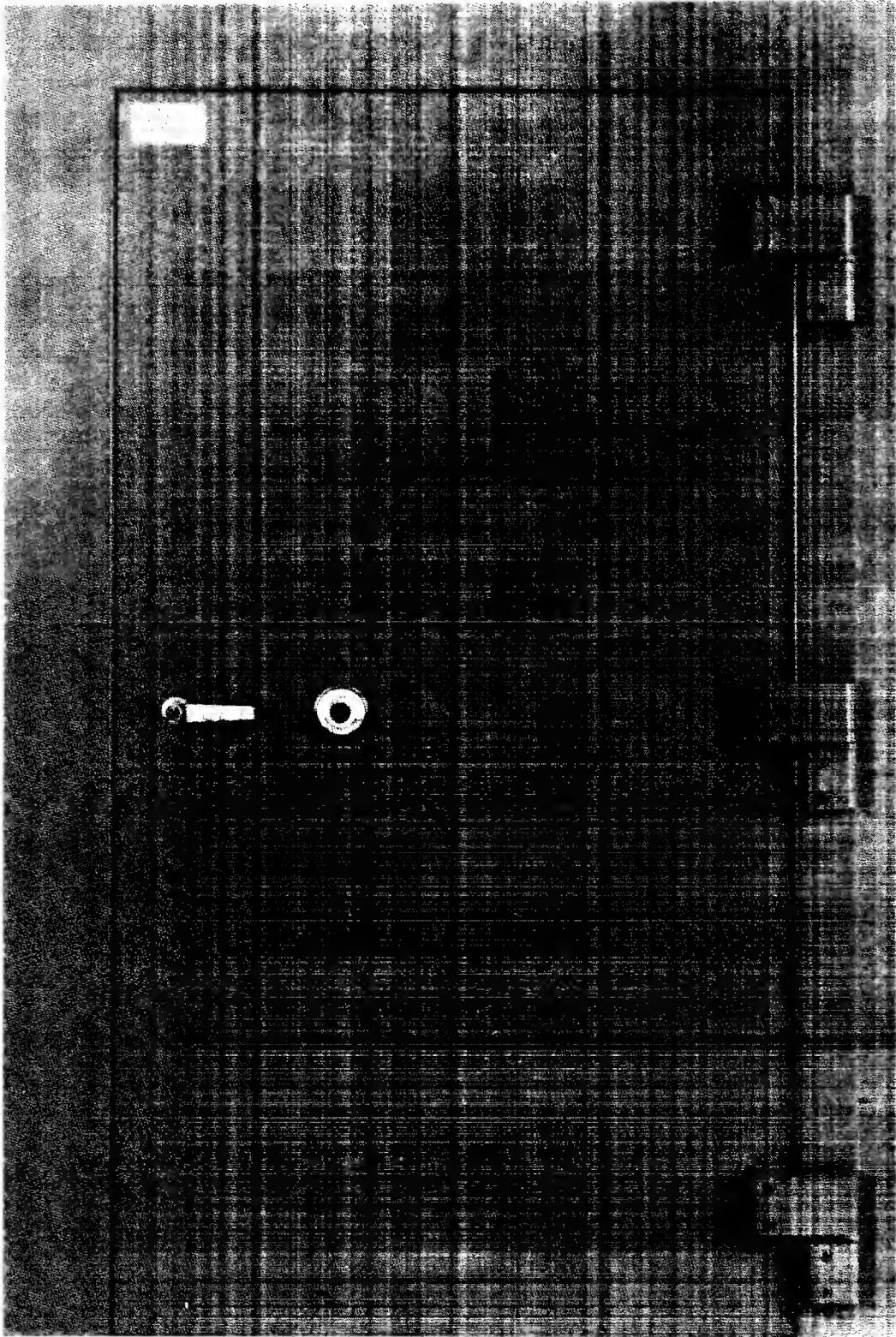
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Mosler Class 5 Map and Plan
Model I

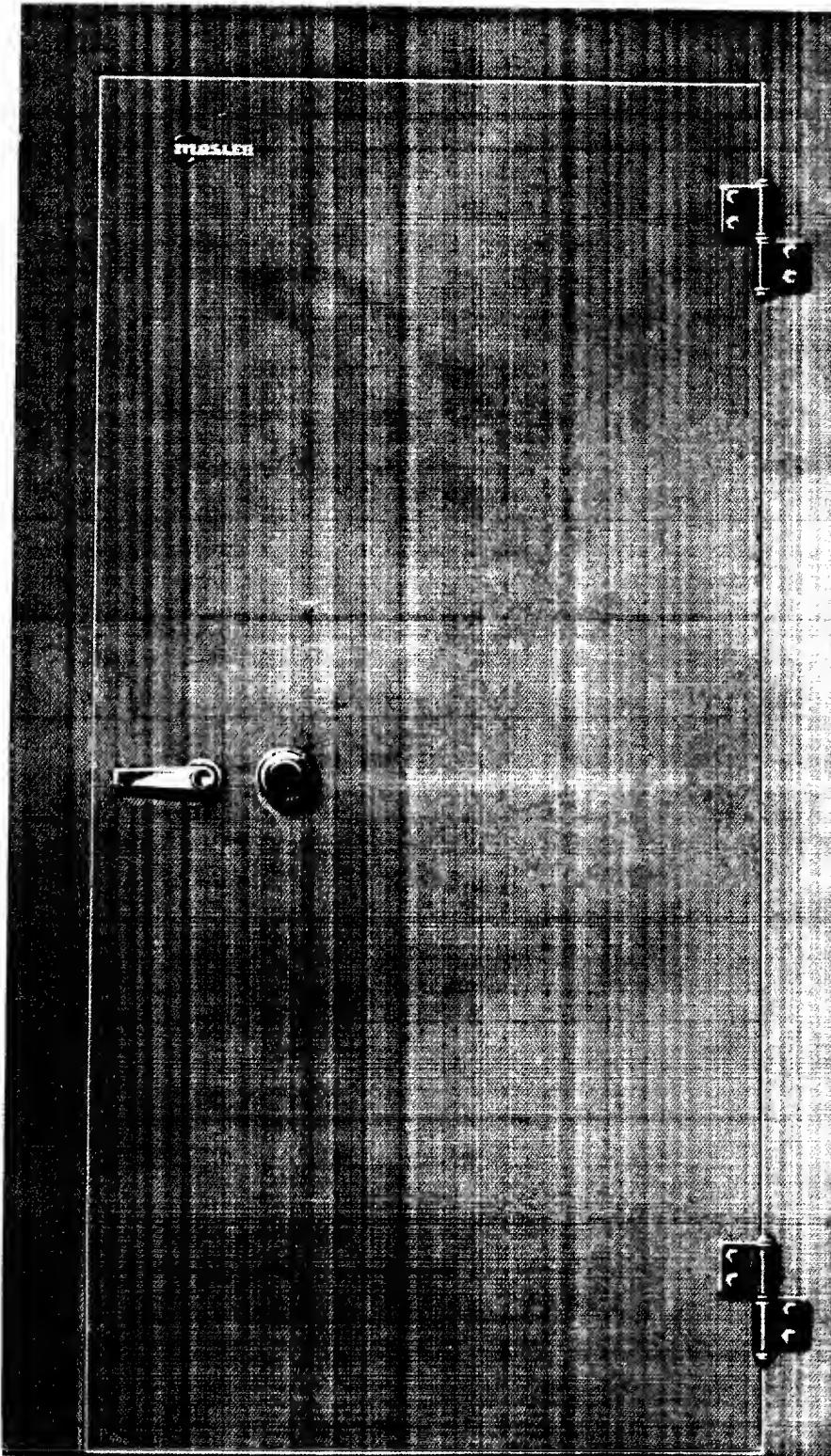
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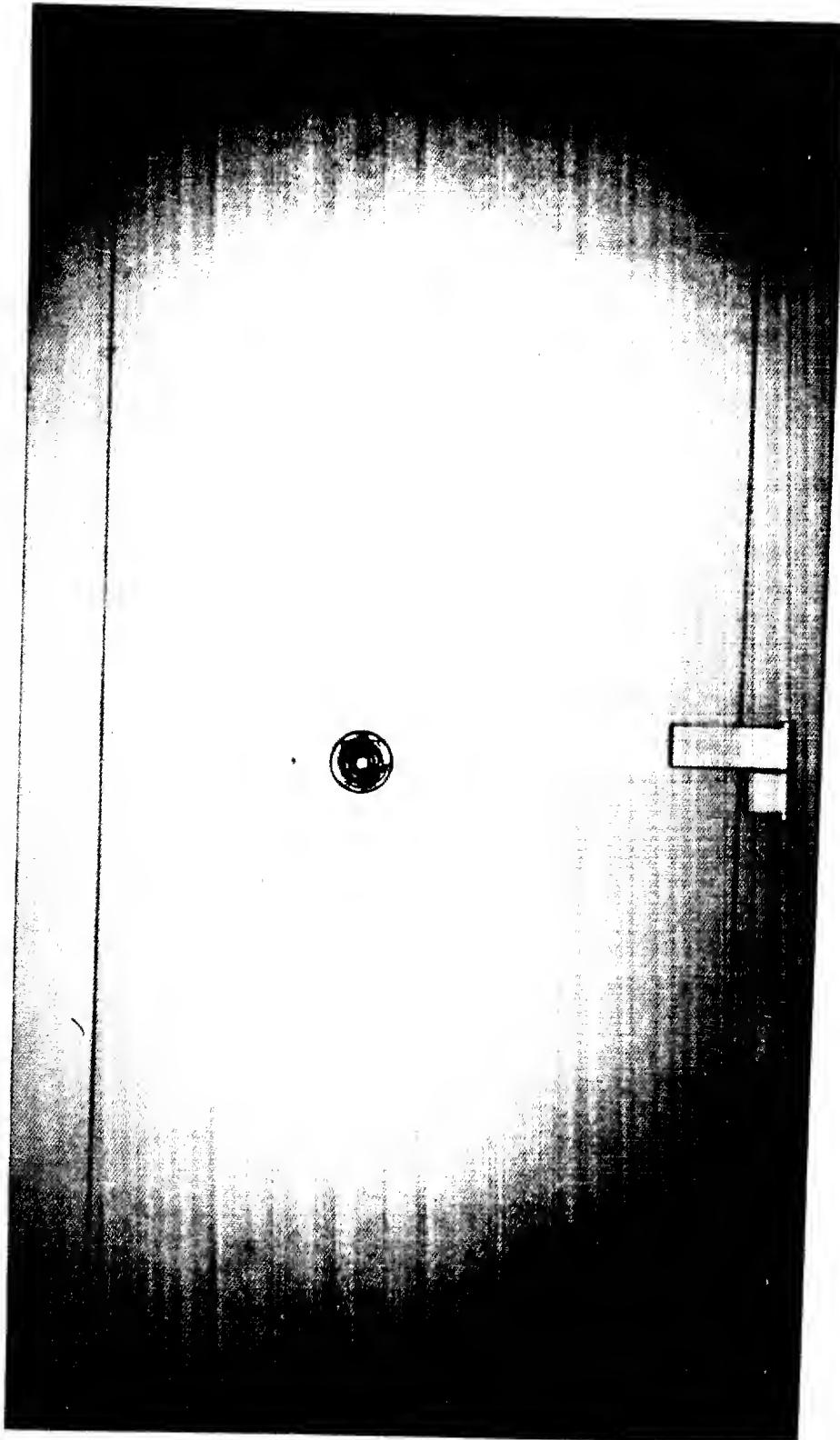
Mosler Class 6 Security Vault Door

(Photographically the same as Class 5
Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6
Security Vault Door)



MOSLER FS-32 $\frac{1}{2}$ hour Commercial Fire Door

Approved For Release 2001/08/09 : CIA-RDP96B01172R000900040004-6



Diebold 1095 $\frac{1}{2}$ hour Commercial Fire Door

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SARGENT & GREENLEAF, INC.

1 SECURITY DRIVE • NICHOLASVILLE, KENTUCKY 40356
TELEPHONE: (606) 885-9411 TELEX: 21-8459

Installation & Combination Changing Instructions For

8550 Series MP Locks

Models 8550, 8555, 8560 & 8565

NOTE: READ COMPLETE INSTRUCTIONS BEFORE INSTALLATION:

The following instructions should be followed when installing Sargent & Greenleaf's 8550 Series Locks.

Caution: Lock mounting bedplate and dial ring mount surface must be parallel. Dial ring center line must be precisely aligned with lock spindle center line (see Fig. 3).

Locate exact position you want the lock on the bedplate. Using the template included with these instructions, drill and tap four holes for the attaching screws ($\frac{1}{4} \times 20$).

Drill hole for spindle through bedplate utilizing the template. For tube locks, the hole should be $13/16"$ diameter. For locks without tubes, the hole should be $1/2"$ diameter.

It is necessary to remove only the cover when attaching this lock. All other parts should remain in place as received from the factory.

INSTALLATION INSTRUCTIONS: (Lock without tube)

1. Remove lock cover. Place lock bolt in the extended position and the accelerator spring in the loaded position (Fig. 1—**CAUTION: Do not remove the drive cam**).

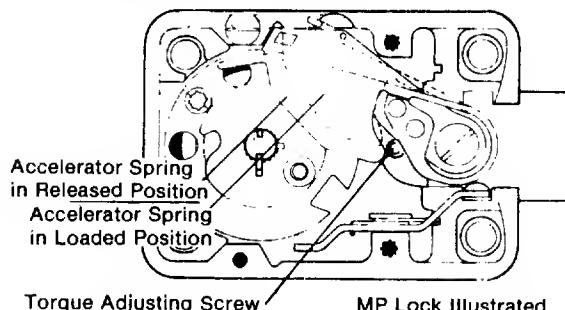


Figure 1

2. Mount the lock in place with four $\frac{1}{4} \times 20$ attaching screws (provided).
3. Attach the dial ring by lightly tightening the attaching screws to hold the dial ring in place for alignment. (Dial ring opening index should be at 12 o'clock center position.)
Caution: When threading dial into cam do not allow cam to slide outward against accelerator spring. Accelerator spring can be easily damaged in this manner.
4. To install dial, hold the drive cam in place with one hand and thread the dial into the cam until the dial comes to a stop against the surface of the dial ring.
5. The alignment of the dial and dial ring is critical to the operation of the lock. Perfect alignment must be obtained. The dial should be flush and centered with the surface of the dial ring, for true center (Fig. 2).

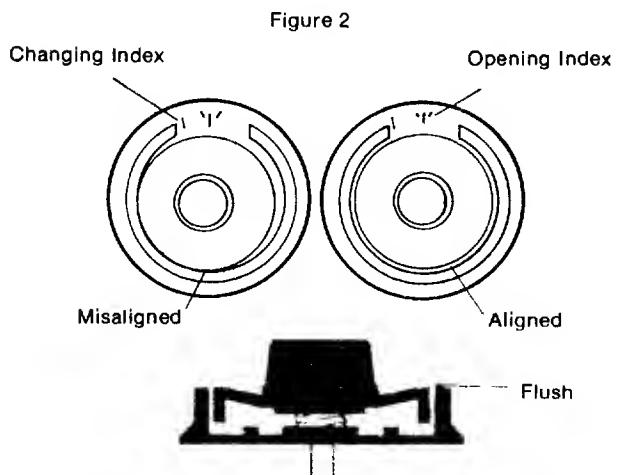


Figure 2

6. Measure the excess spindle that projects beyond the drive cam (Fig. 3).
7. Remove the dial, cut off excess spindle and remove burrs.



Figure 3

8. Tighten the dial ring screws.
9. Place a washer, compression spring and washer on hub of dial (Fig. 4).

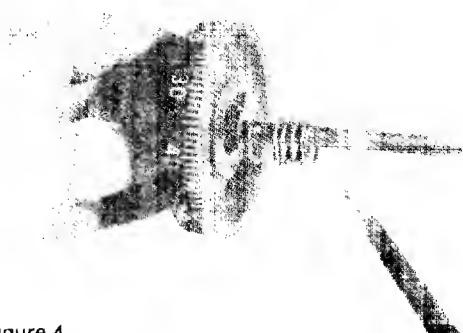


Figure 4

10. Insert dial into the lock. (Observe paragraph 3 Caution.) Hold drive cam in place, positioned to receive nose of drop lever, and thread dial into cam until the dial stops.

11. Turn the dial counterclockwise until zero on dial is aligned with opening index, then turn dial one turn further. At this time the proper spindle spline and proper cam spline should be closely aligned. Vertical-up — VU, Right Hand — RH, etc.

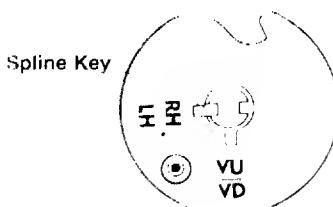


Figure 6

12. Insert the spline key with the lip toward edge of cam. Tap in lightly. The dial must turn freely with no rubbing or interference. **NOTE: Before attaching cover to lock, check for proper in and out travel of dial for operation of accelerator spring.**

13. Turn the dial at least one complete revolution and stop at zero. The accelerator spring should now be in the loaded position.

14. Hold the cover in place on the lock and push the dial in at zero. Release the dial. Remove the cover and check the position of the accelerator spring (spring should be in the released position). If the accelerator spring is not in the released position, the dial has not been backed out of the cam far enough and the condition must be corrected. Remove spline key, hold cam and rotate dial one additional full turn counterclockwise. Re-install spline key and repeat step 13.

15. Turn the dial at least one complete revolution and stop at "50." The accelerator spring should not be in the loaded position.

16. Hold the back cover in place on the lock and push the dial in at "50." The accelerator spring should not release. (If the accelerator spring does release, the spindle must be turned clockwise into the cam one revolution and this step repeated.)

17. Dial the factory combination (50-0) on the lock and observe the drop lever falling into the drive cam. Repeat this step at least three times.

18. When the accelerator spring is operating properly, the cover may be attached to the lock and the new combination set.

FOR TUBE LOCKS:

1. Fasten the lock to the mounting plate. Place the dial ring on the tube.
2. Measure and mark tube excess. Remove the lock and add 3.0 mm or .120 inch (to insert in dial ring bushing) and cut off excess tube.
3. Remove any burrs from end of tube. Replace the lock and ring on the door and proceed with Step 4 of the previous instructions.

DIALING COMBINATION TO OPEN LOCK:

Before operating the lock or changing the combination, read these instructions thoroughly.

On the dial ring, you have two indexes. The one at the top is for normal dialing and opening. The index to the left is provided for use only when changing the combination.

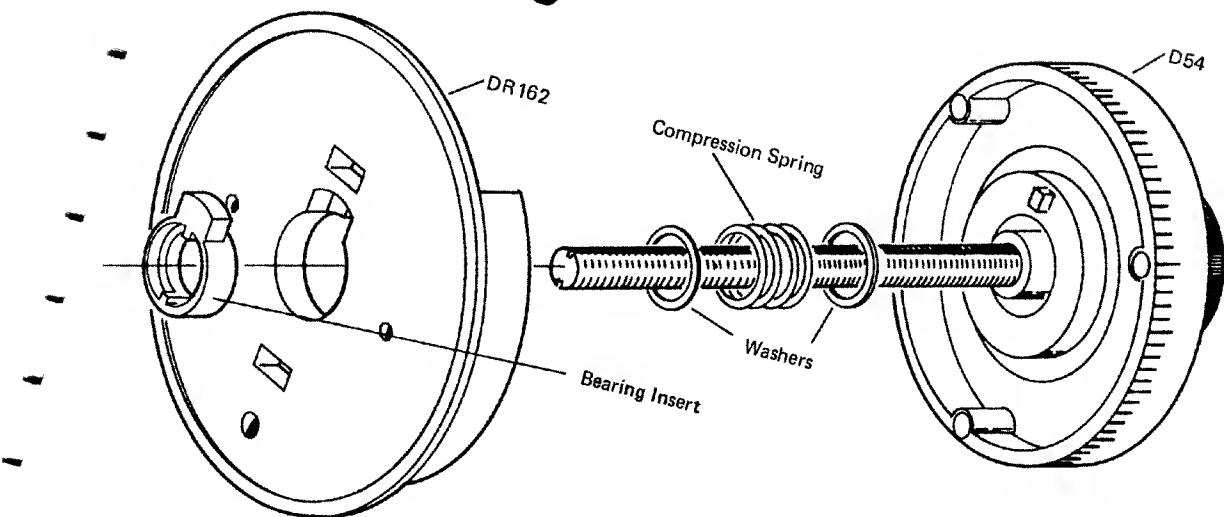
Turn the dial slowly and steadily. If, after turning the correct number of revolutions, any number is turned beyond the index mark, the entire series of combination numbers must be re-dialed. **Do not turn back to regain proper alignment.** Each time a selected number is aligned with the opening index, a revolution is counted.

CAUTION: Dial should not be pushed in until the combination has been dialed.

TO UNLOCK: On a factory setting

1. Turn dial counterclockwise, stopping when "50" is aligned with the opening index the fourth time.
2. Turn dial clockwise, stopping when "0" is aligned with the index mark the first time.
3. With the "0" aligned with the index, push dial in firmly and release to activate lever assembly.
4. Turn dial clockwise until the bolt retracts. If the bolt has not retracted, the safe or cabinet may be opened.

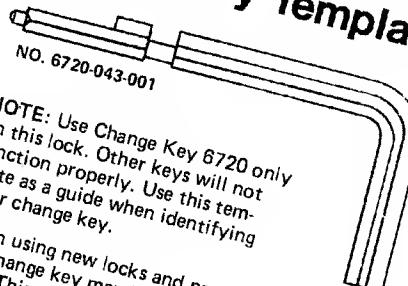
Bearing Insert Instructions



Part Numbers	Description
7051-076-001-000	Compression Spring
7051-019-001-000	Washer (2)
7216-028-001-000	Bearing Insert

Before installation of the dial ring, the plastic bearing insert (see illustration) should be pressed into the opening in the back of the dial ring. The insert must fit flush with the dial ring.

Change Key Template



NO. 6720-043-001

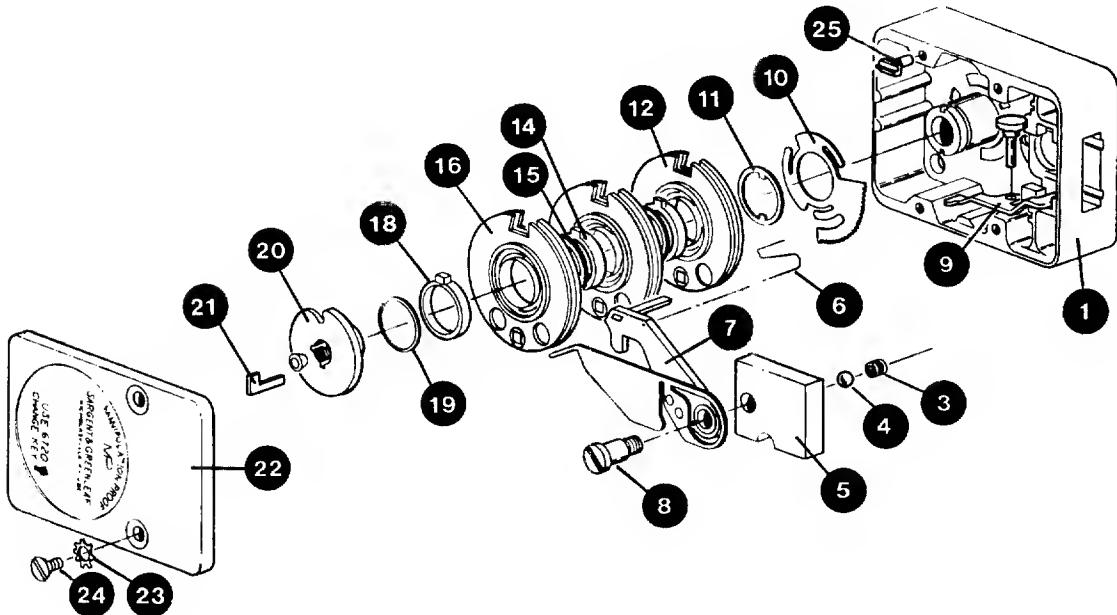
NOTE: Use Change Key 6720 only on this lock. Other keys will not function properly. Use this template as a guide when identifying your change key.

When using new locks and new change keys, the change key may be difficult to turn at first. This situation may be eliminated by removing the lock cover, inserting the change key through the hole in the cover and turning it several times. Then remove the key and replace the cover on the lock.

WARNING!! Never insert the change key into the lock itself when the cover is removed. Also, always be certain that the changing key is entirely within the lock before turning.

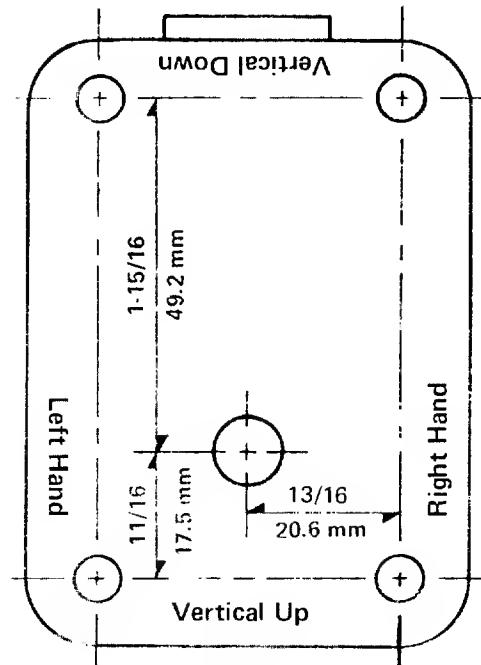
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Parts List & Template



Item	Description	Part No.
1.	Case, non-tube models	8550-001-004
2.	Case, tube models	8555-001-004
3.	Detent Spring	6740-163-002
4.	Ball Detent	303-108
5.	Bolt	6730-003-069
6.	Lever Spring	8550-102-001
7.	Lever Assembly	8550-004-501
8.	Lever Screw	6720-085-001
9.	Relock Lever	6640-034-001
10.	Tension Spring	6730-419-001
11.	Spacing Washer	9050-032-005
12.	Bottom wheel, Brass	9060-016-503
13.	Bottom Wheel, Delrin	9057-016-503
14.	Middle or Bottom Fly	9057-031-002
15.	Spacing Washer	9050-032-005
16.	Middle/Top Wheel, Brass	9060-016-504
17.	Middle/Top Wheel, Delrin	9057-016-504
18.	Top Fly	9050-030-067
19.	Retaining Ring	338-102
20.	Drive Cam	8550-005-505
21.	Spline Key	6720-053-002
22.	Cover	8550-002-504
23.	Cover Washer	354-102
24.	Cover Screw	402-110
25.	Spring Hook Stud	8550-020-001
26.	Wheel Pack (Brass) includes Items 11, 12, 14, 15, 16, 18 & 19.	9060-750-003
27.	Wheel Pack (Delrin) includes Items 11, 13, 14, 15, 17, 18 & 19.	9057-751-003

Template For Lock



Packing List

1 Dial	2 Dial Ring Screws 8/32
1 Dial Ring	1 Compression Spring
1 Spline Key	2 Compression Spring Washers
1 Lock Case	4 Attaching Screws 1/4 x 20
1 3/32" Allen Wrench	1 Change Key